PORT OF ANCHORAGE
EMERGENCY DREDGING
AUGUST 2003

US Army Corps of Engineers ®
Alaska District

Allen Churchill, Corps of Engineers – Alaska District
Henry Schorr, Manson Construction – Seattle, WA

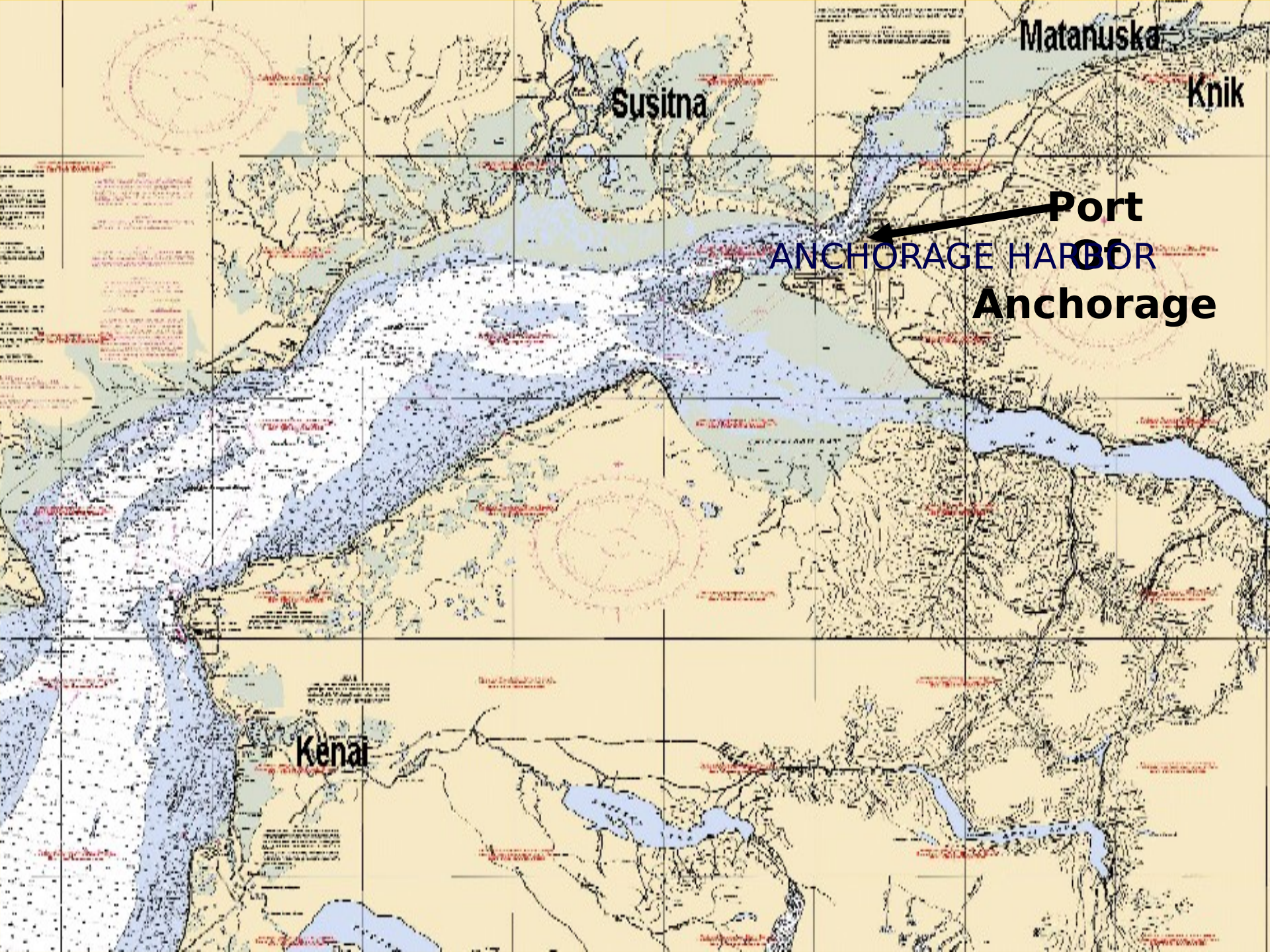
November 12, 2003

MANSON CONSTRUCTION CO.

US Army Corps of Engineers
Alaska District

ALASKA DISTRICT O&M PROJECTS

AK


Matanuska
Knik
Susitna
Port
Of
Anchorage
ANCHORAGE HARBOR
Kenai

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Project History

AK

- **Authorized by the Rivers and Harbors Act, 3 July 1958, as amended.**
- **First dry cargo berth completed in 1961 with –35 feet MLLW approach depth and –10 feet MLLW at the dock face.**
- **Dock extended 1000 feet in 1977 (PL 94-587) to current 3000 foot length and depth at –35 feet MLLW.**
- **New petroleum dock completed in 1993.**
- **Currently serves as the main supply and distribution center for the south-central and interior Alaska including two military bases that lie within the Municipality of Anchorage.**

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Historical Dredge Quantities

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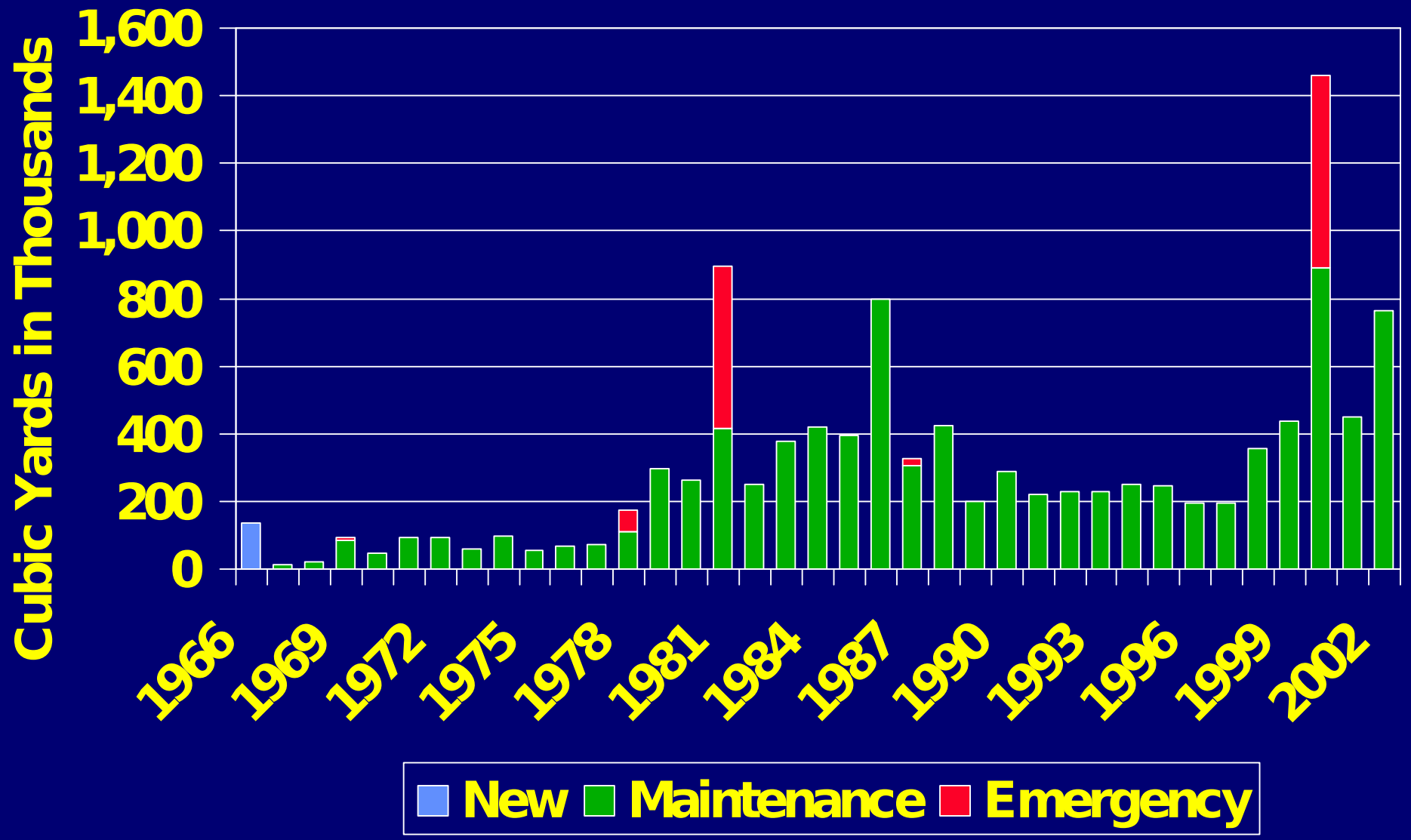

PROJECT LIMITS
(approximate)

02 1:6000 FL=153.13mm

PORT OF ANCHORAGE FLT I 005

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Survey Legend

AK

FT (MLLW) Range Beg.	FT (MLLW) Range End	Color
-44.00	-43.00	
-43.00	-42.00	
-42.00	-41.00	
-41.00	-40.00	
-40.00	-39.00	
-39.00	-38.00	
-38.00	-37.00	
-37.00	-36.00	
-36.00	-35.00	
-35.00	-34.00	
-34.00	-33.00	
-33.00	-32.00	
-32.00	-31.00	
-31.00	-30.00	

Project Depth
-35 FT (MLLW)

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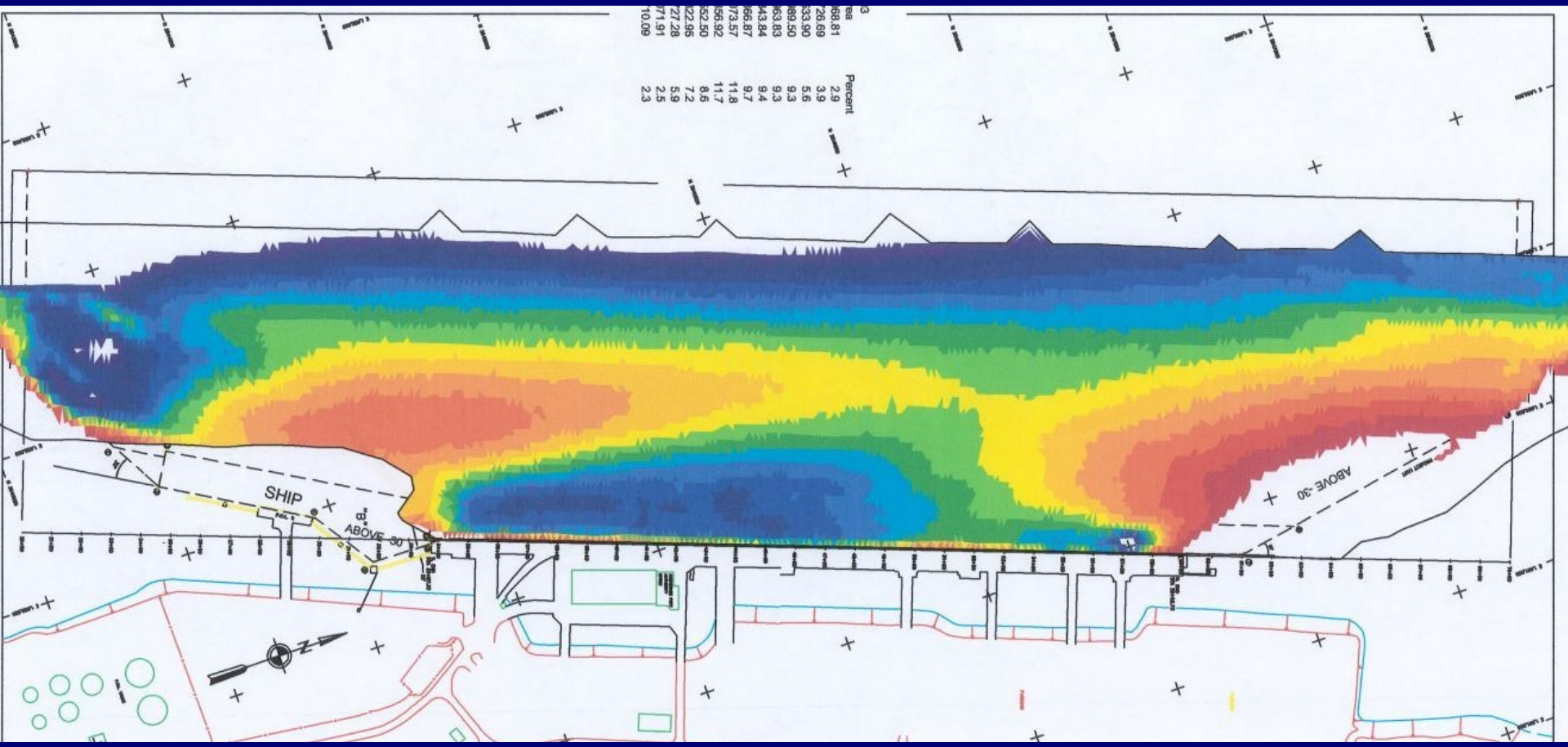
28-29 May 2003
Pre-dredge Conditions

AK



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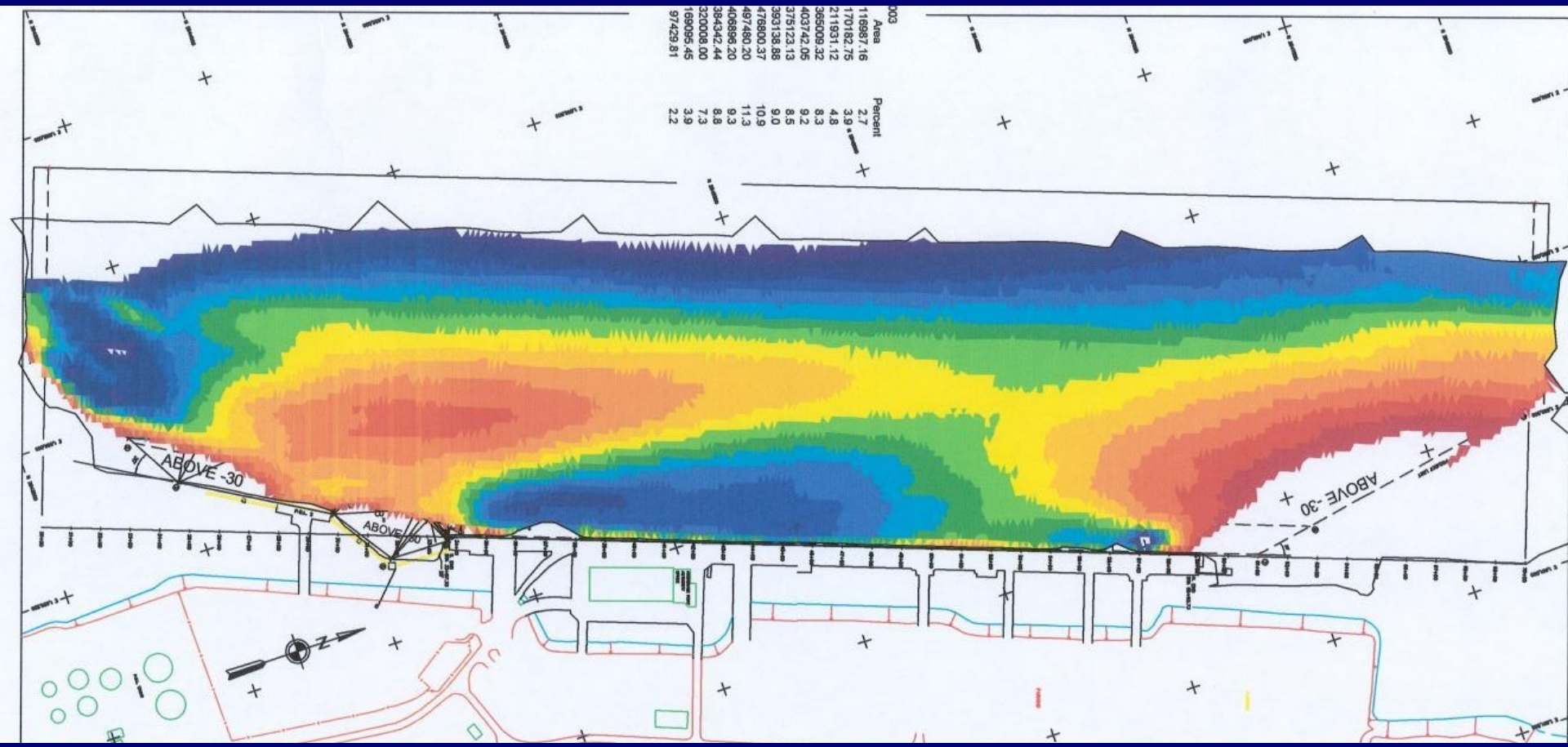
4 June 2003
Pre-dredge Conditions

AK



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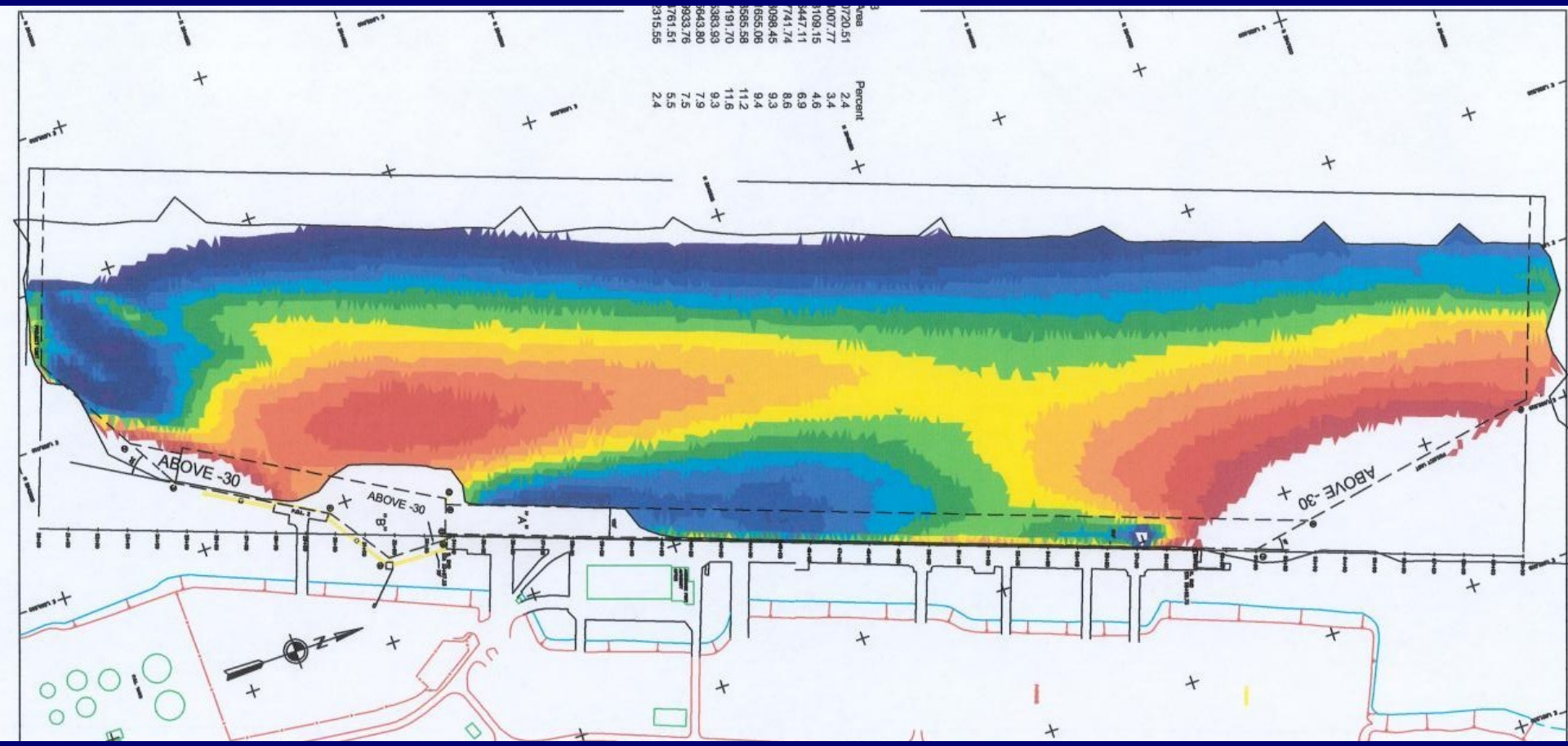
11 June 2003
First Day of Clamshell Dredging



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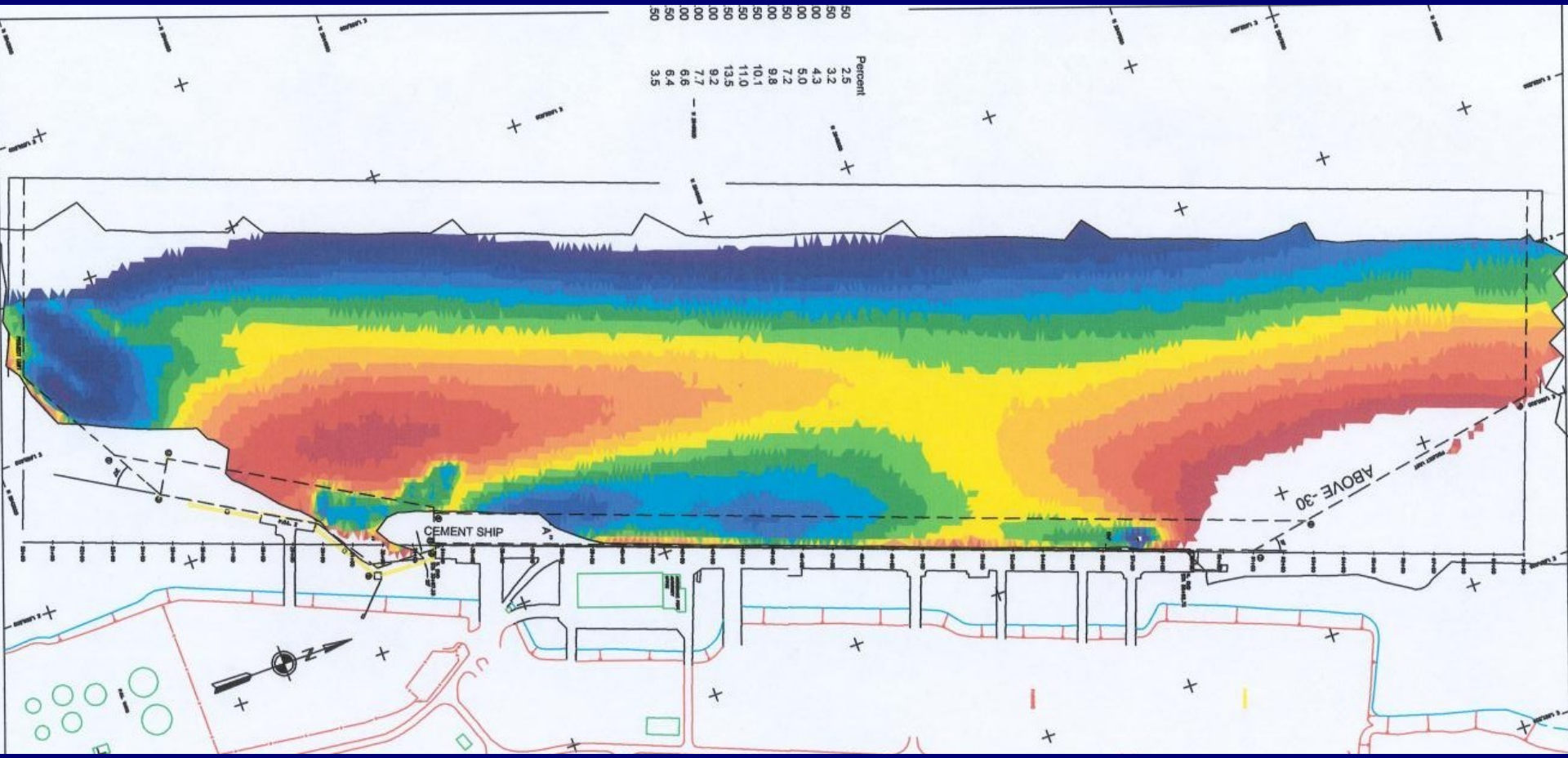
18 June 2003
One week of Clamshell Dredging

Ak



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25 June 2003
2 weeks of Clamshell Dredging

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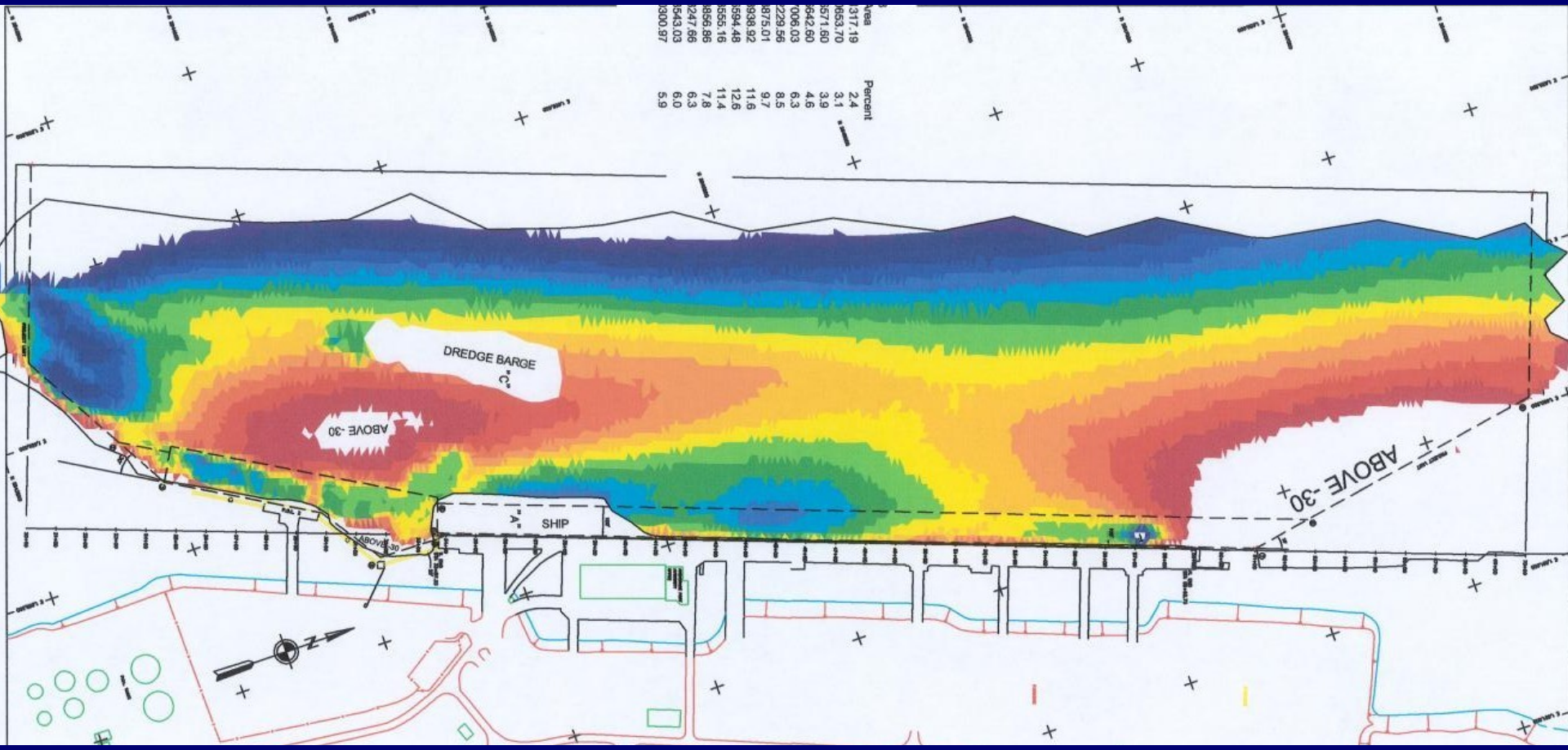

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Alaska District

2 July 2003
3 weeks of Clamshell Dredging

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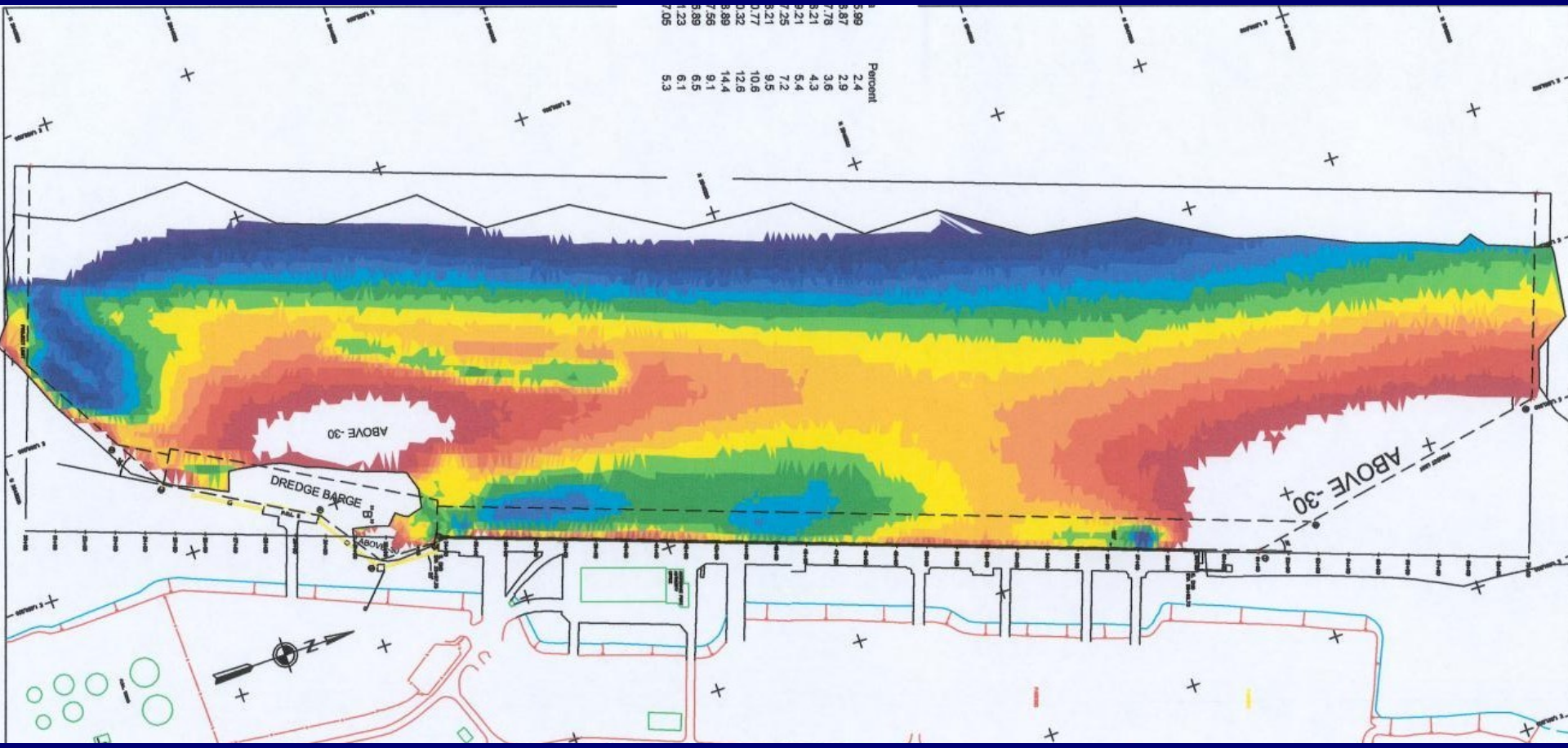

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9 July 2003
4 weeks of Clamshell Dredging

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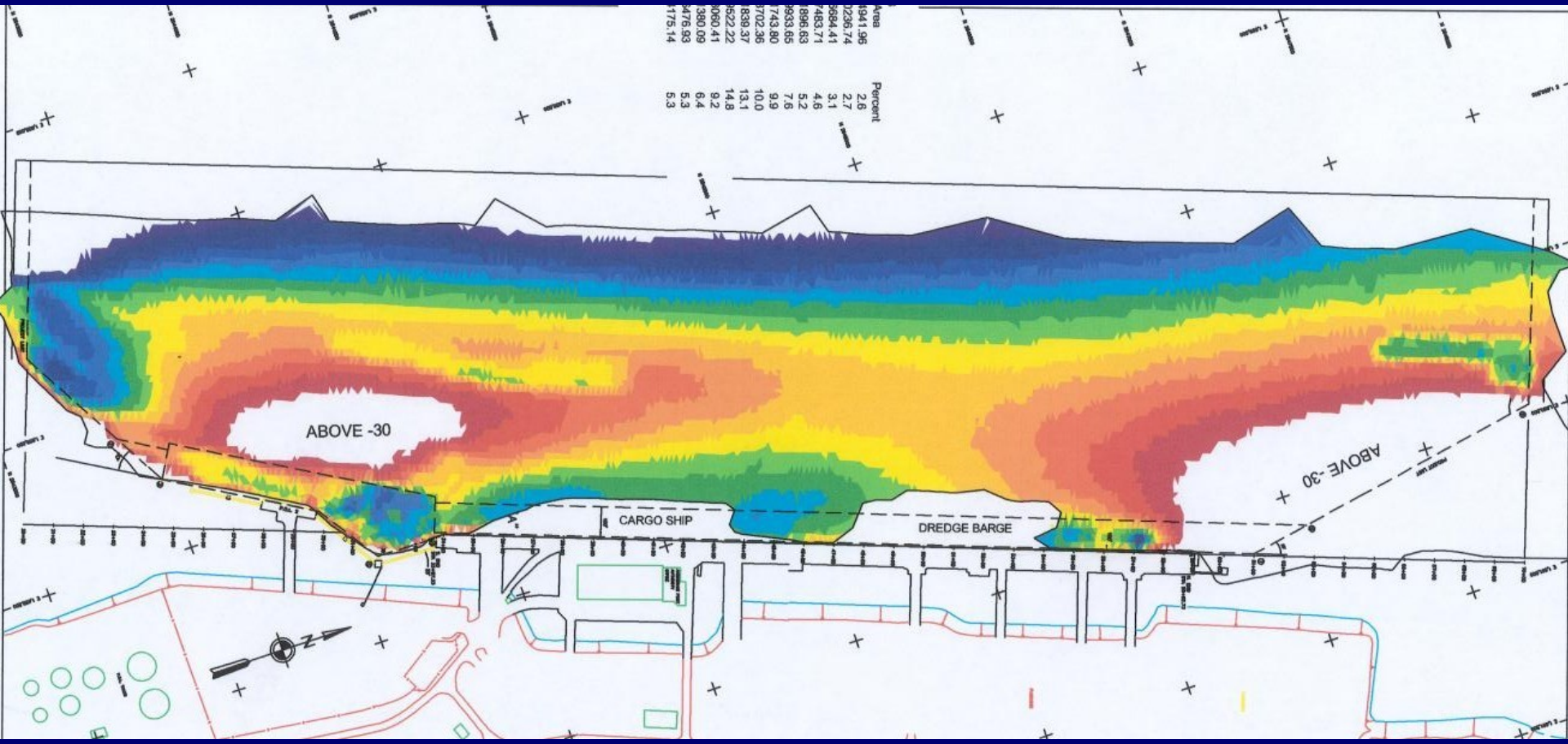

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Emergency Declaration

AK

10 July

- Project Review Board Meeting approves using the Raise-the-Flag (RTF) procedure for a hopper dredge.

  - Needed fast removal of shoals on north and south end of project.

  - Hopper Dredge allows greater versatility (no anchor lines) in heavy ship traffic and ability to maneuver around existing clamshell dredge and exploration drilling platform.

- RTF Alert message to the Industry-Corps Hopper Dredge Management Group (ICHDMG) sent out at 1338 hours via e-mail; to respond by 1500 hrs

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ICHDMG PHILOSOPHY

AK

- ALL U.S. Hopper Dredges are a National Asset
- A Healthy Industry is VITAL to the Nation
- GOAL: Ensure maximum availability of Hopper Dredge Capacity to serve Nation

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"RAISE THE FLAG" Procedure

AK

- Developed
  - to ensure rapid response in removing Navigation Hazards
- Philosophy
  - Use Industry First

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RAISE THE FLAG

AK

- Yellow Flag
  - Potentially No Equipment Available for Bid
- Red Flag
  - Potentially no Equipment Available for an Urgent and Compelling Need
  - Industry Response Solicited on Expedited Basis
- Corps Dredge Response
  - If Industry is Unavailable for Urgent and Compelling Need

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ICHDMG Program Benefits

AK

- Emergency Response has been Expedited
- Hopper Dredge Capacity has been Increased
- Fewer Impacts to the Nation's Ports

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ICHDMG Process

AK

11 July

Telephone contacts emphasizing urgent need to:

- Bean – Stuyvesant
- B&B
- Corps HQ and Division Offices
- Dredging Contractors of America
- Great Lakes Dredge & Dock
- Manson Construction
- Portland District COE
- Weeks Marine

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ICHDMG Process

AK

11 July

Dredges potentially available:

- Bean-Stuyvesant's dredges in Gulf of Mexico area
- Corps' YAQUINA in Portland
- Great Lakes' SUGAR ISLAND at the Mouth of Columbia River.
- Manson's VIKING clamshell in Seattle
- Manson's WESTPORT in San Francisco
- Manson's BAYPORT in New Orleans

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ICHDMG Process

AK

14 July

- The SUGAR ISLAND could not get released from the Mouth of the Columbia River work by Portland District
- Manson's VIKING would cause too much congestion with other vessels using the Port.
- Bean-Stuyvesant dredges and Manson's BAYPORT were too far away and/or unavailable for several more weeks.
- Manson Construction responds at 1300 hrs with notification that the WESTPORT is available in San

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ICHDMG Process

AK

15 July

- E-mailed ICHDMG status on responses at 0845 hours.
- PDT continues work on contract plans and specifications.
- Contracting Officer authorizes 72 hours for contractor proposal preparation.
    - Processed waiver to open solicitation to Large and Small Business.

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ICHDMG Process

AK

16 July

- Project Delivery Team finalizes contract plans and specifications
- Proposal Documents FEDEXed and e-mailed to Manson Construction at 1400 hours.
- Received schedule and cost estimate from Portland District for dredge YAQUINA, if needed.

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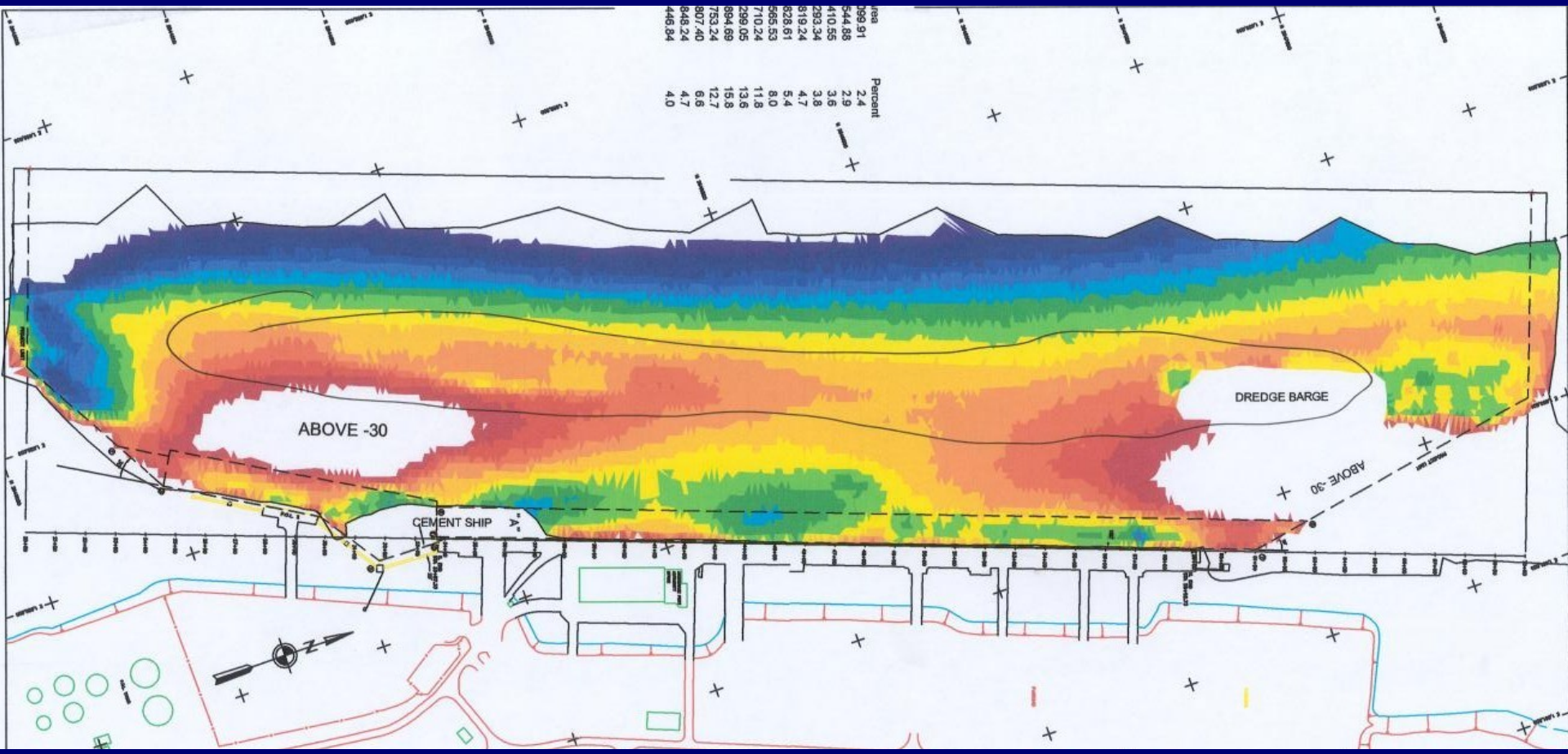
17 July 2003
5 weeks of Clamshell Dredging



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ICHDMG Process

AK

17 July

- Telephone conversations w/ PDT and Manson on various aspects of the plans and specifications
- Appendix A of RTF procedure sent to CEPOD for approval.
- Prepared draft Letter of Award for faster submittal to Contractor when negotiations were complete.

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ICHDMG Process

AK

18 July

- Coordinated contract funding issues w/ HQ and Division office.
- Issued Amendment to Proposal Documents for clarification on several items.
- Manson FEDEXed proposal to Contracting Officer.
- Pre-award survey completed, CCASS database checked for records of previous work
- Checked Central Contractor Registration to ensure contractor is registered.

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Alaska District

ICHDMG Process

AK

21 July

- Govt estimate completed
- Manson's proposal received.
- Determination of Findings was prepared to waive audits for amounts > $500,000.
- Pre-negotiation objectives completed.
- Contract negotiations begin.
- Continued working funding issue with Corps Division and HQ.

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ICHDMG Process

AK

22 July

- Meeting at Port of Anchorage to provide situation update.
- Contract negotiations completed.
- Funds obligated for contract.
- Contract award letter FAXed to Manson Construction
  - $2,045,000 for 300,000 CY

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ICHDMG Process

AK

23 July

- E-mail notification sent to ICHDMG regarding contract award to Manson.
- Price Negotiation Memorandum prepared.
- Finalize documents for hard copy award package.
- Route contract award package through District for review and

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ICHDMG Process

AK

24 July

- NTP issued to Manson Construction.
- Finalized Justification and Approval document for other than full and open competition (Expedited Procurement, Unusual and Compelling Urgency).
- Hardcopy contract award package sent to Manson Construction.
- Total elapsed time from Alert to NTP was 14 days!!!

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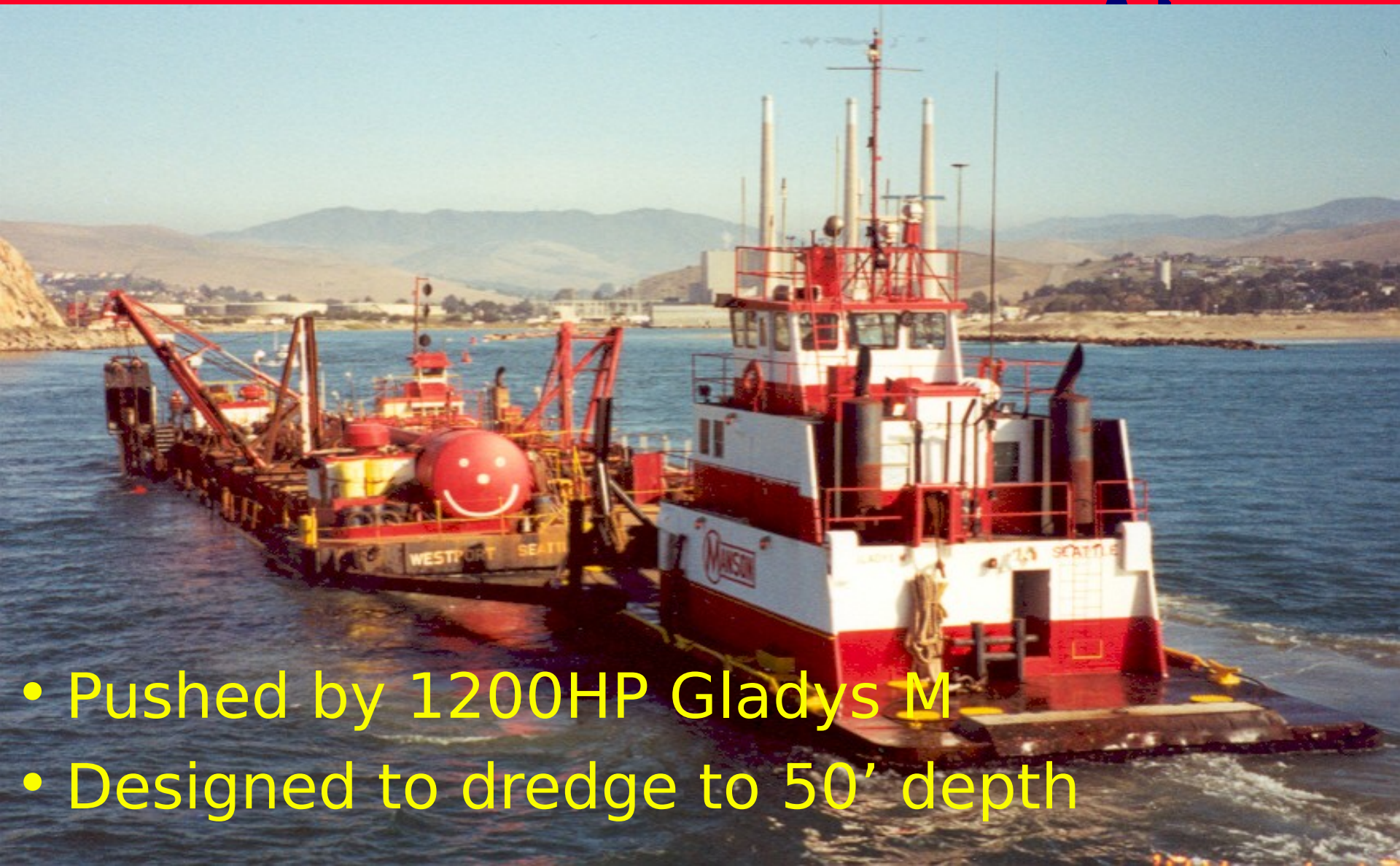
Hopper Dredge Westport AK



- Pushed by 1200HP Gladys M
- Designed to dredge to 50’ depth

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Equipment Modifications

AK

- Utilize 4000Hp Peter M for propulsion
- Move Dragarm Davits and Hydraulics

- Lengthen Dragarms to allow 72’ depth

- All Modifications accomplished in 3

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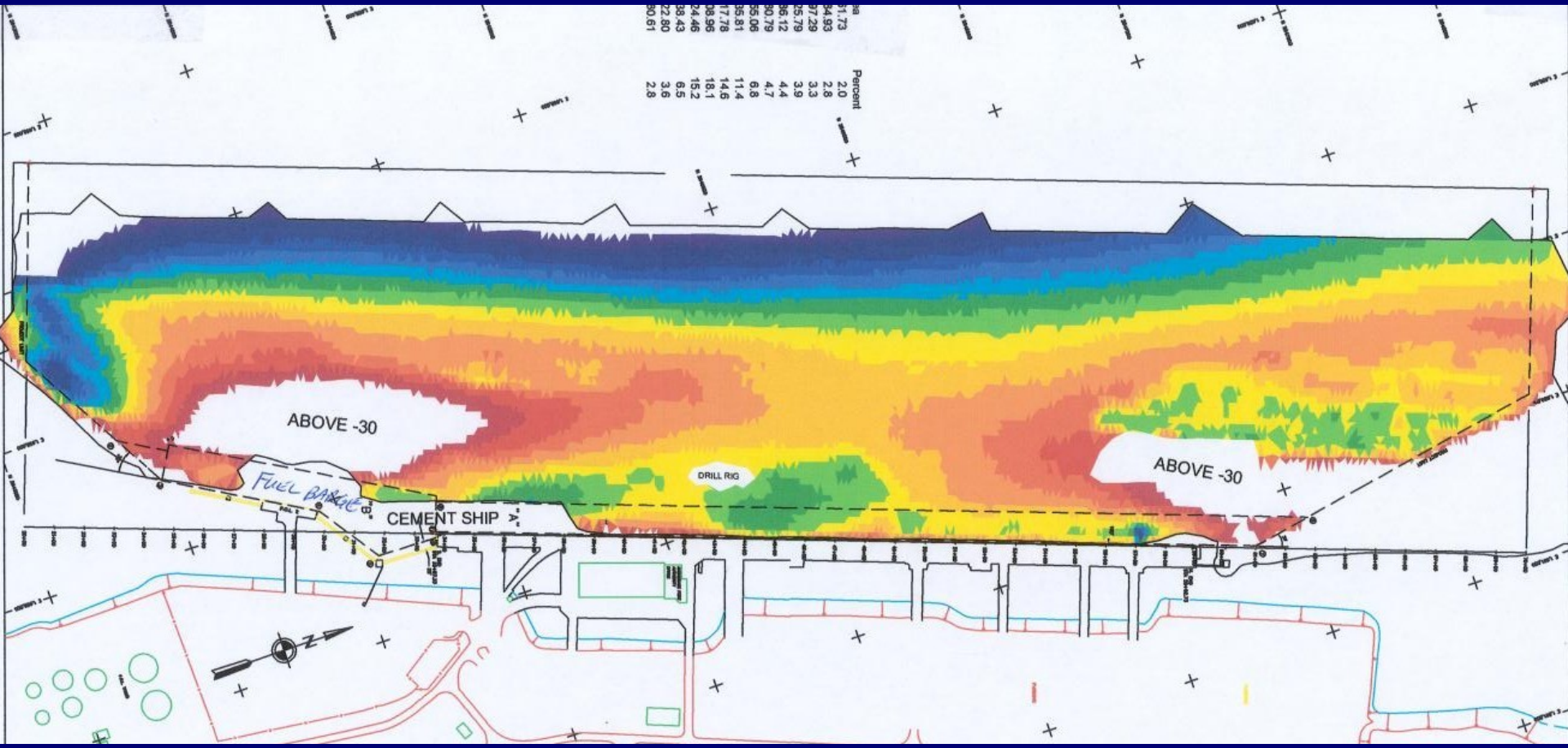
24 July 2003
6 weeks of Clamshell Dredging



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31 July 2003
7 weeks of Clamshell Dredging

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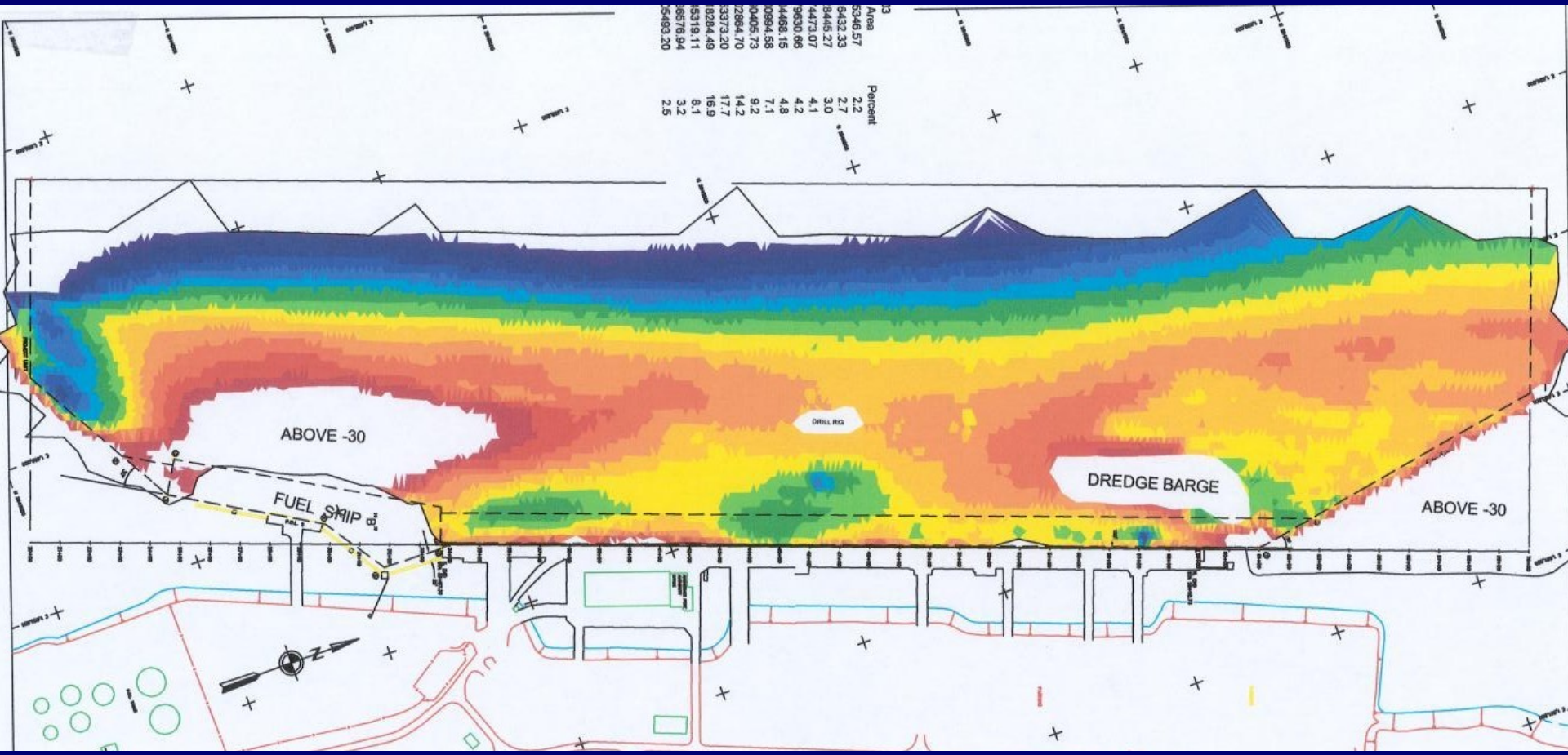

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1 August 2003
7 weeks and 1 day of Clamshell Dredging

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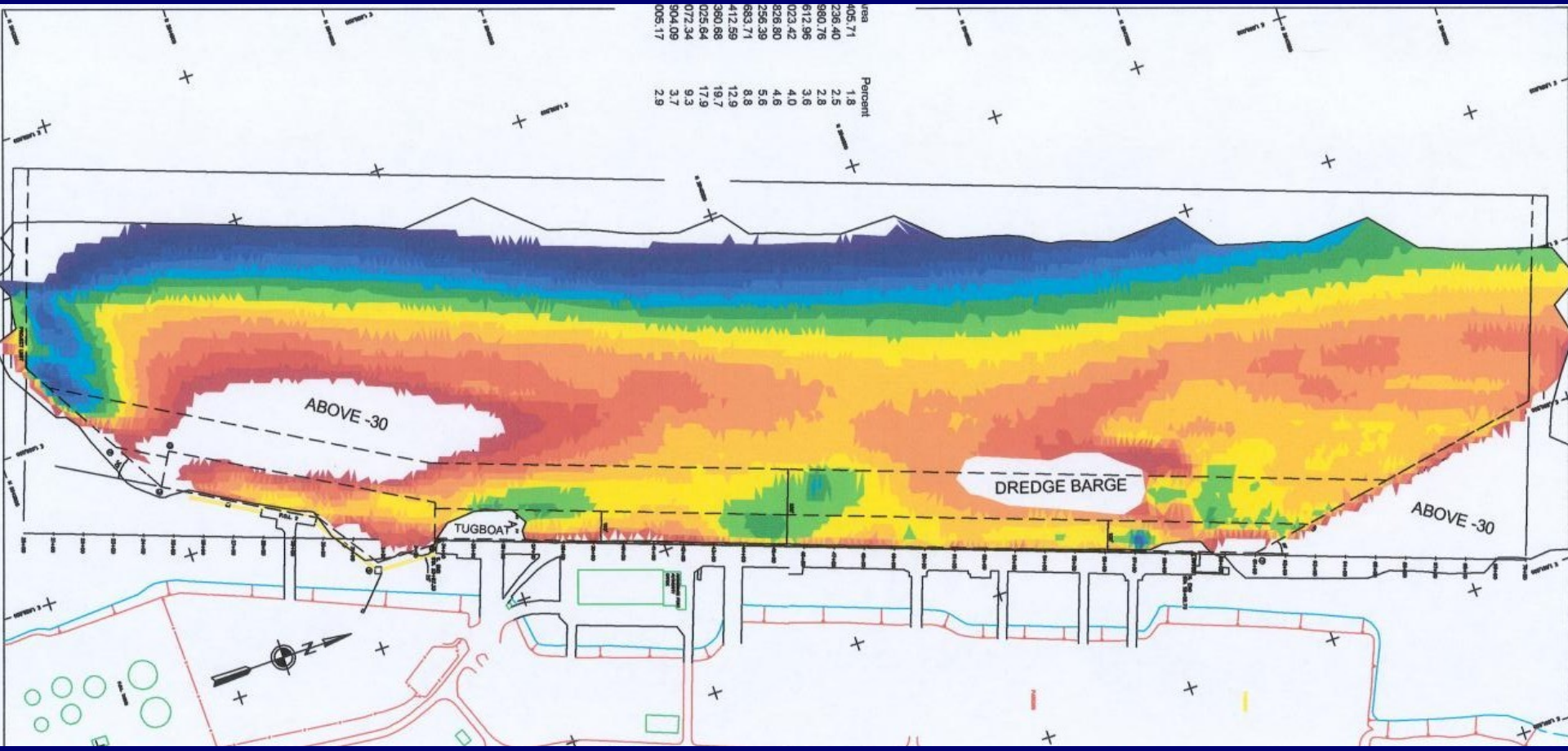

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3 August 2003
Westport Arrives in Anchorage

- **Full Project Management Staff**
  - **–Quality Control Manager**
  - **–Dredge Superintendent**
  - **–Hydrographic Surveyor**
- **Dredge Control**
  - **–Daily Hydrographic Surveys**
  - **–Differential GPS for Positioning**

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4 August 2003
Westport Dredging

AK

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4 August 2003
First Day of Hopper Dredging

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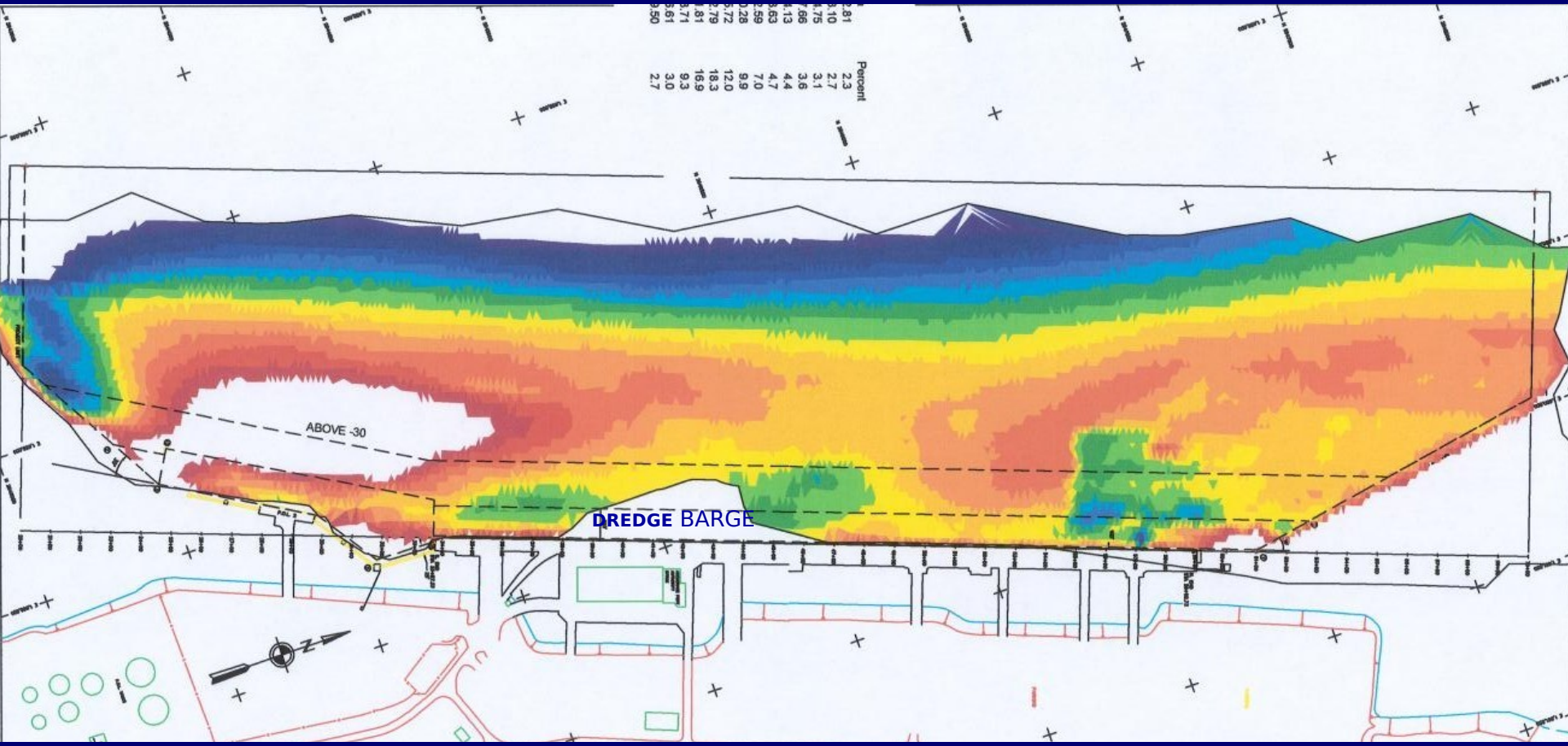

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6 August 2003
2 days of Hopper Dredging

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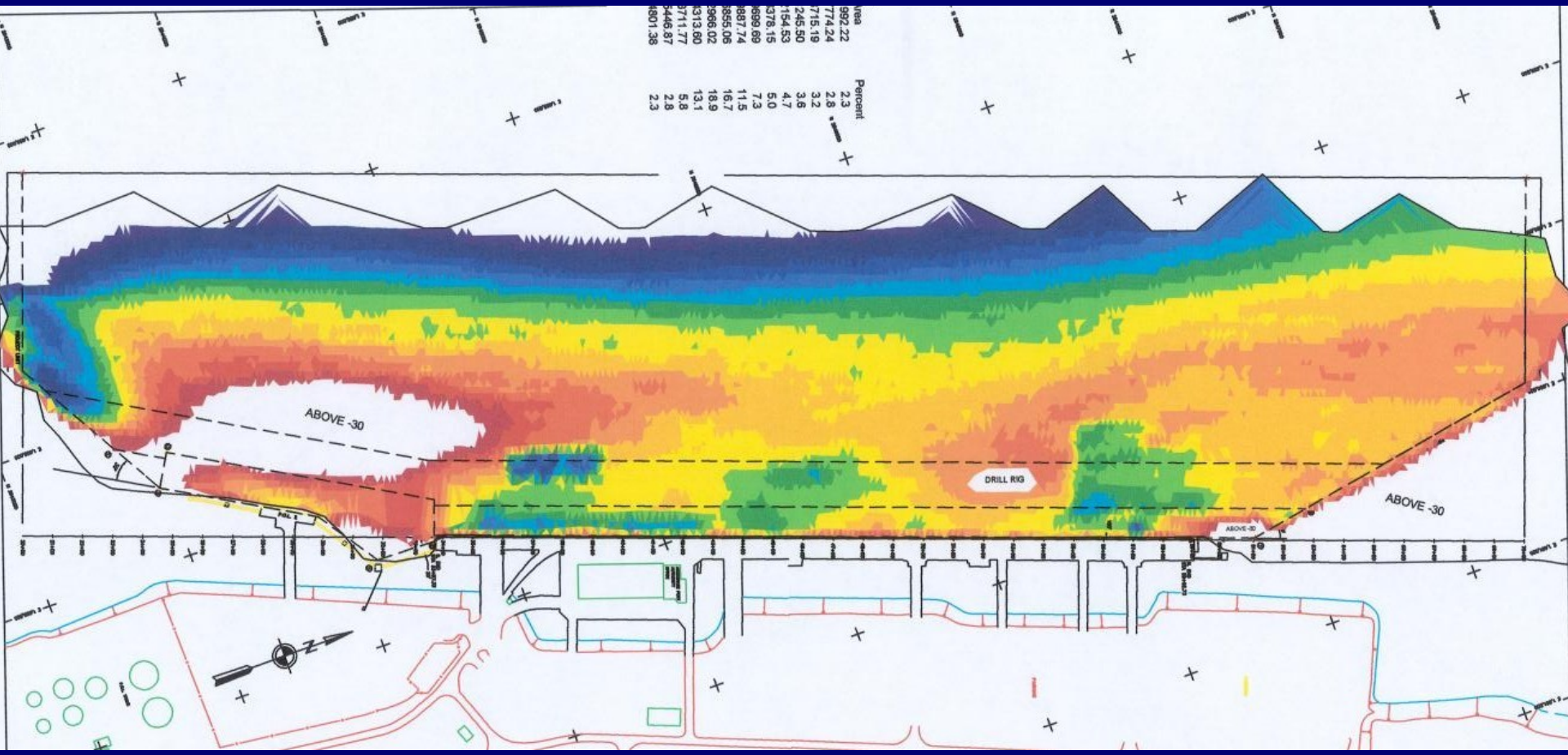

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8 August 2003
4 days of Hopper Dredging

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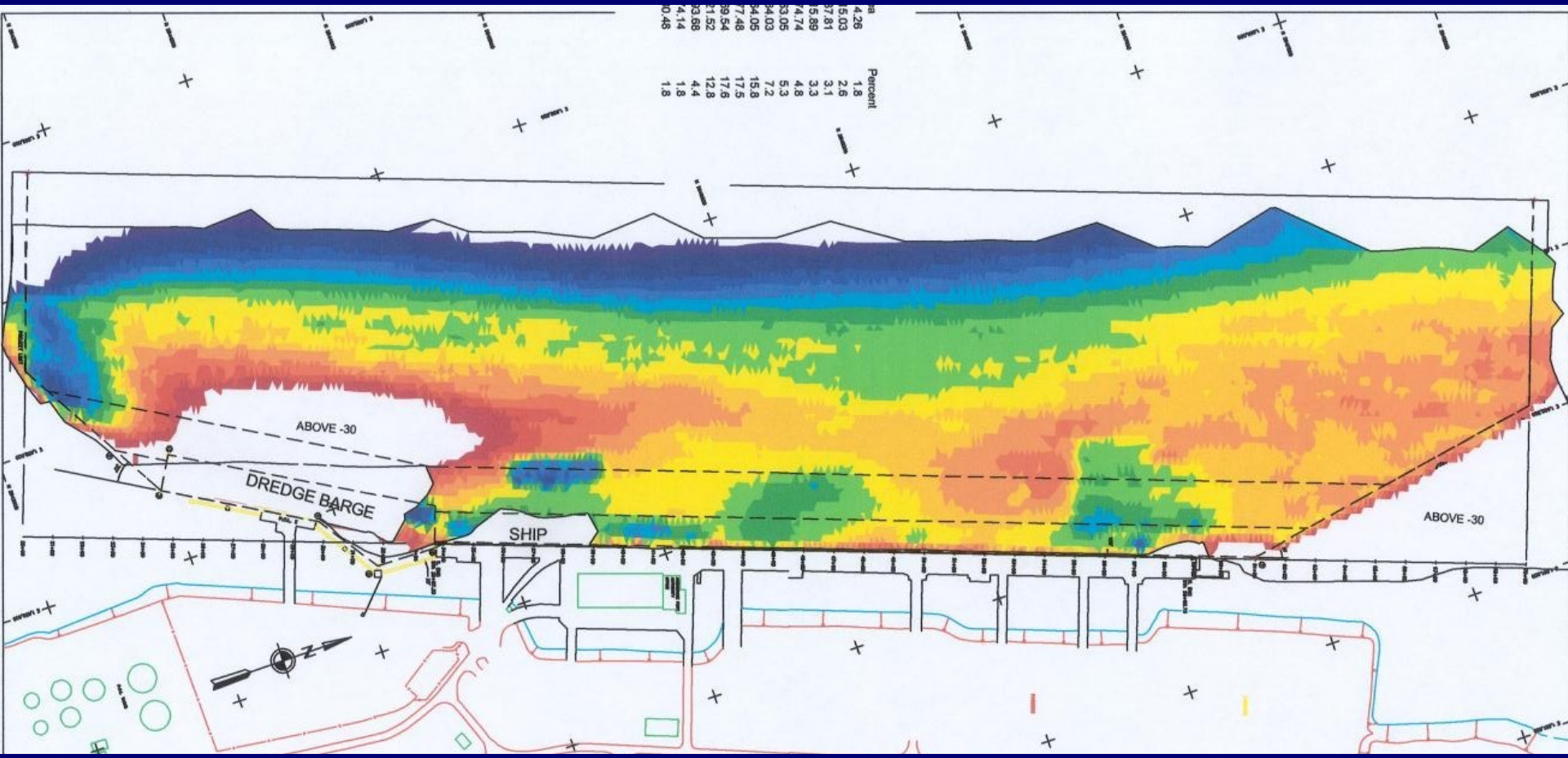

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11 August 2003
7 days of Hopper Dredging

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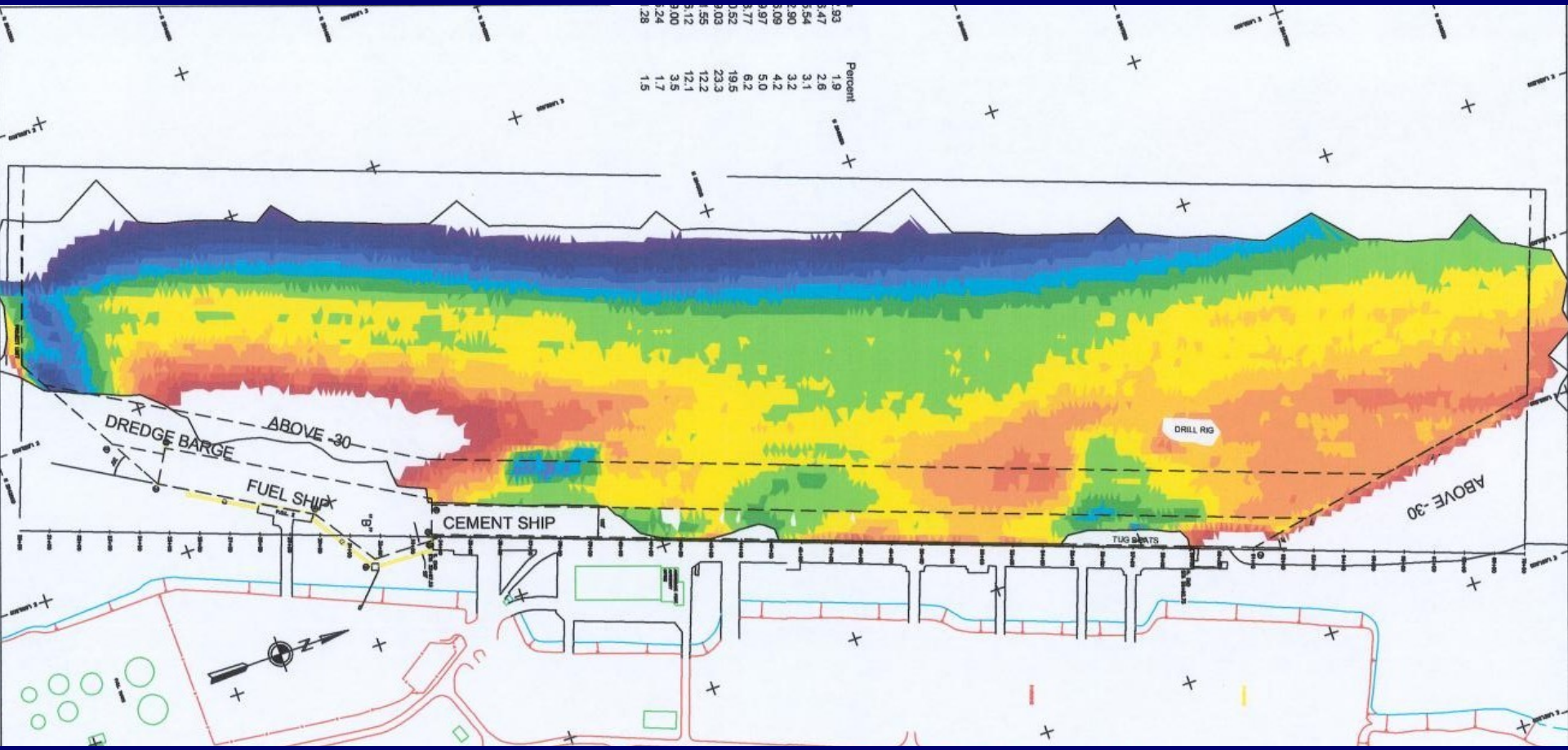

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Westport Dumping

AK

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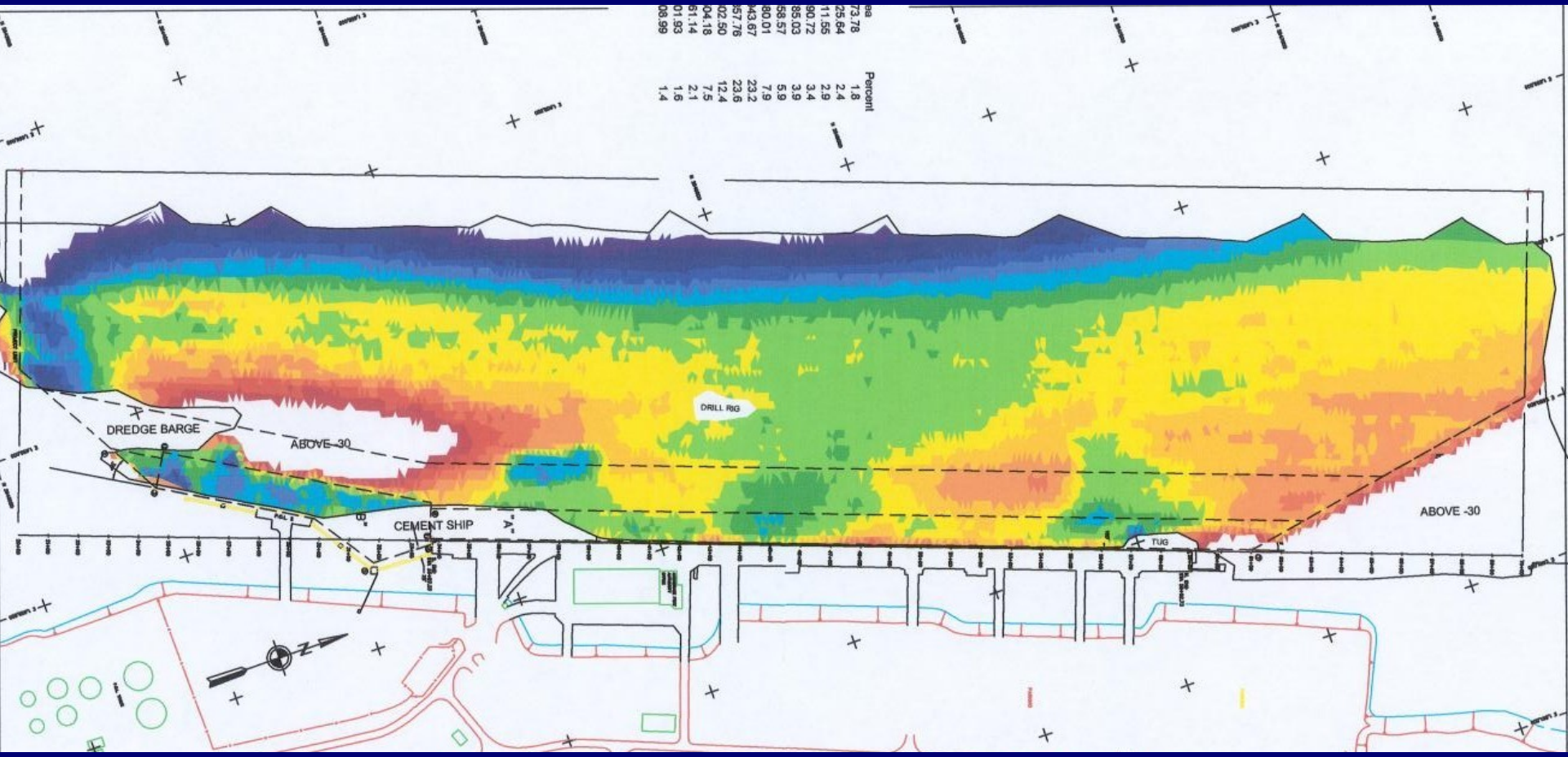
13 August 2003
9 days of Hopper Dredging

AK



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15 August 2003
11 days of Hopper Dredging

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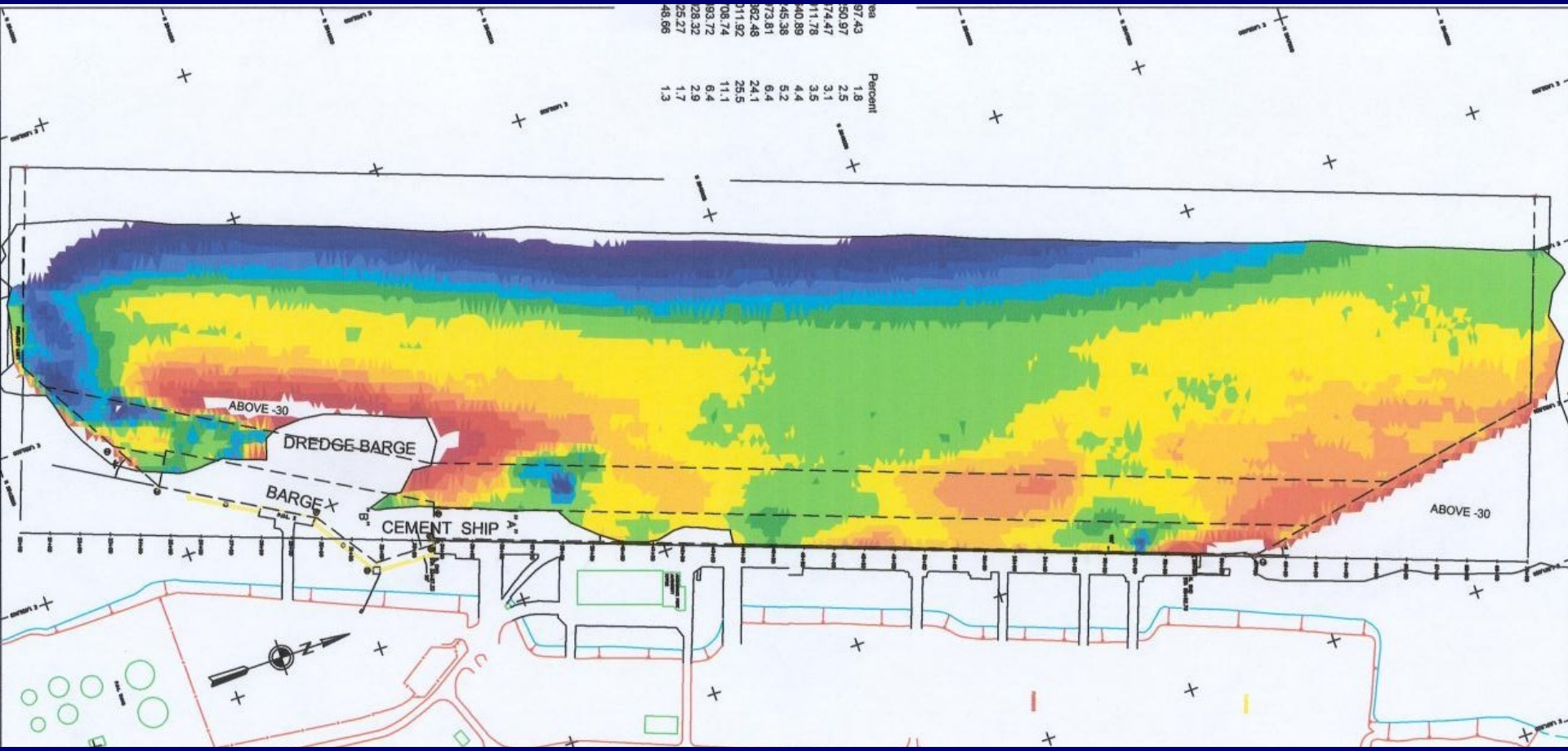

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18 August 2003
14 days of Hopper Dredging

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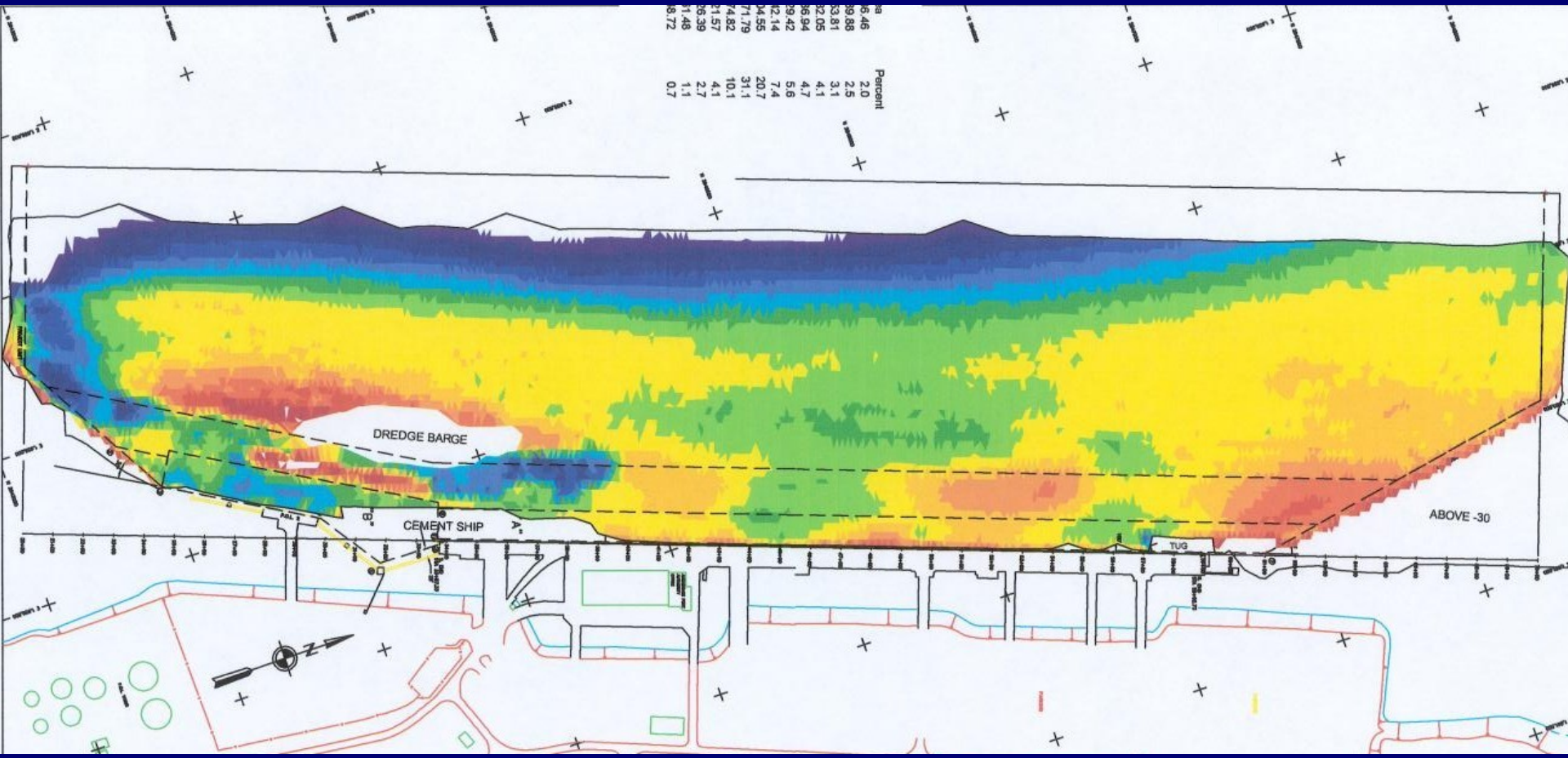

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WESTPORT @ POL Dock AK

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20 August 2003
16 days of Hopper Dredging

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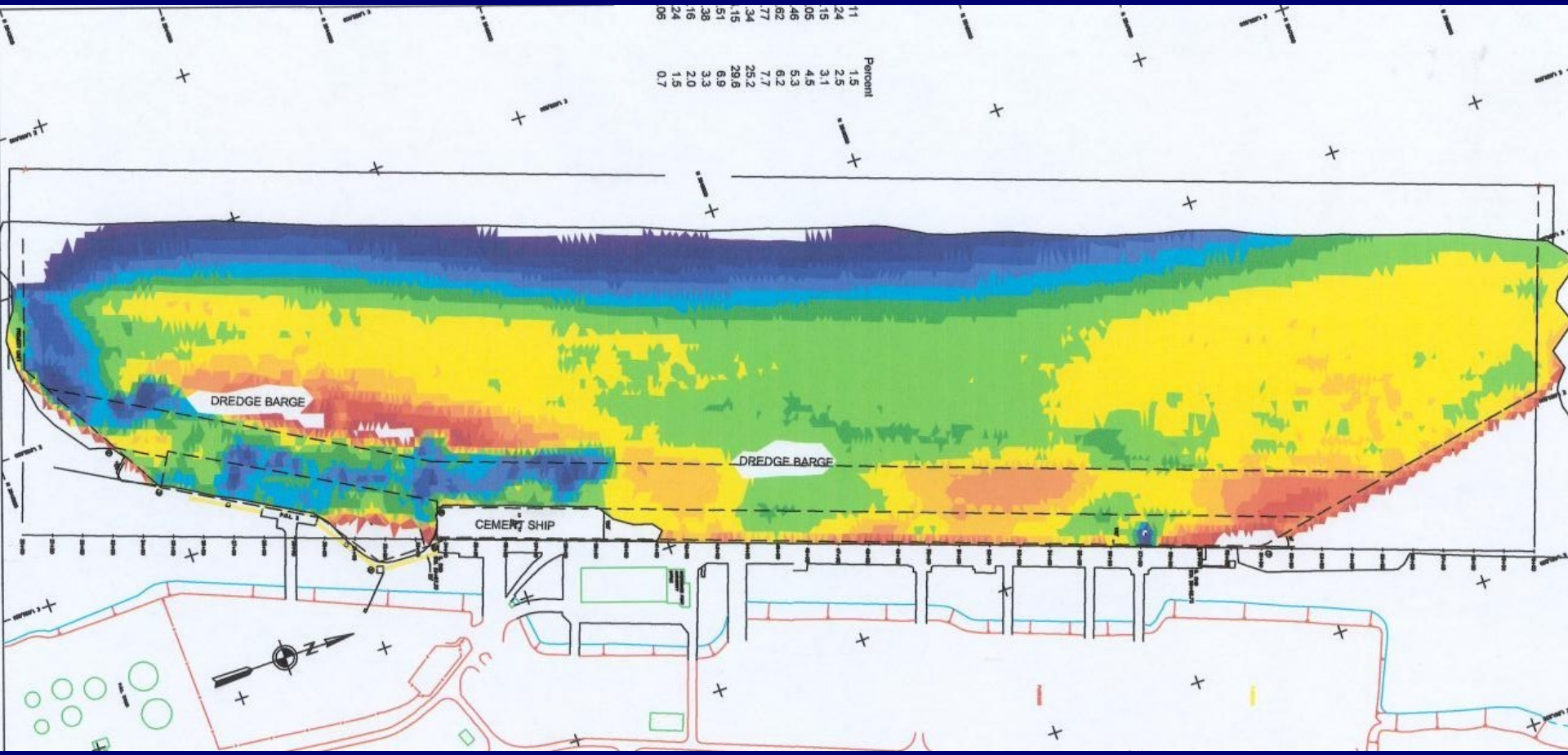

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22 August 2003
18 days of Hopper Dredging

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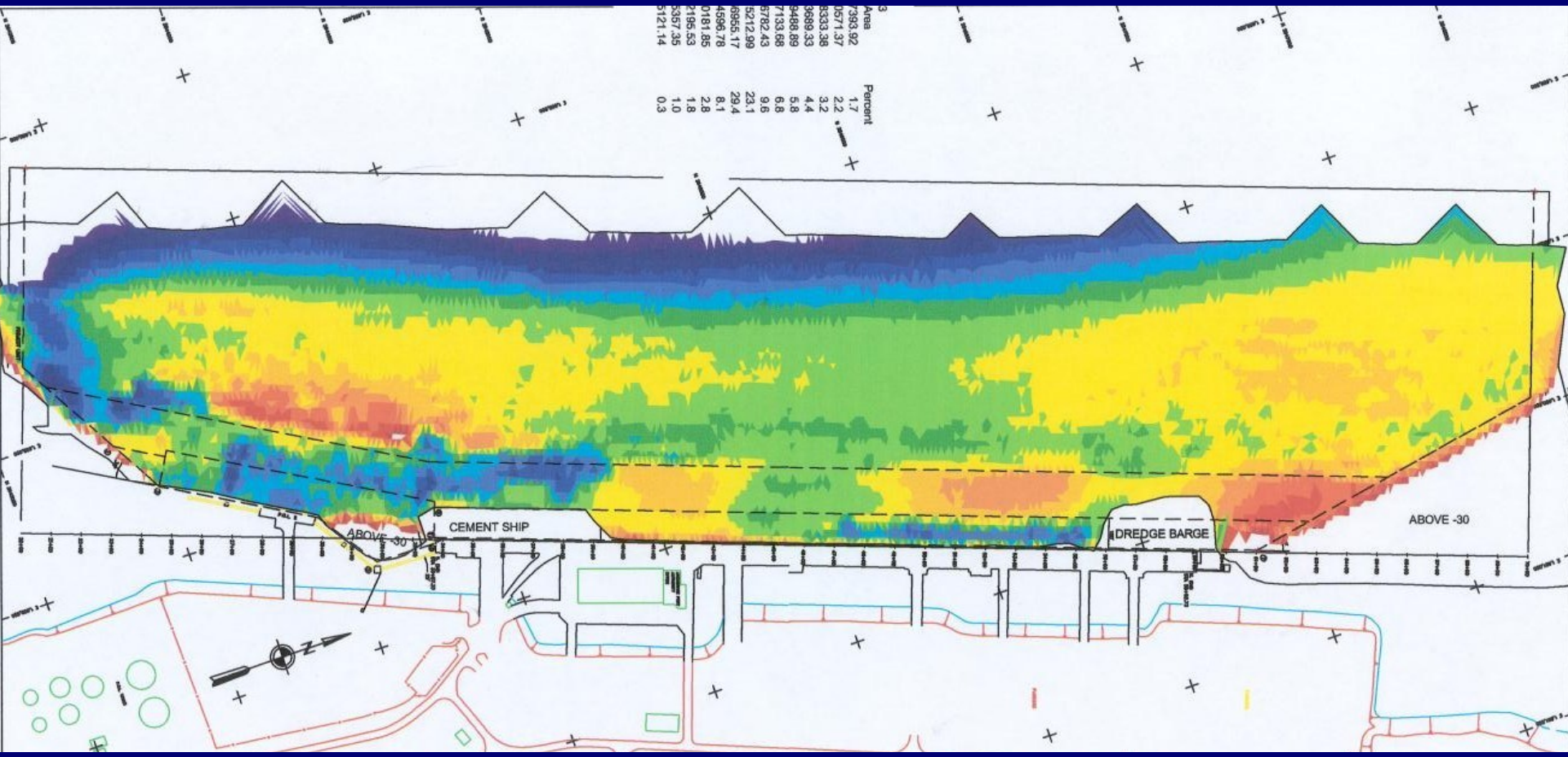

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25 August 2003
21 days of Hopper Dredging

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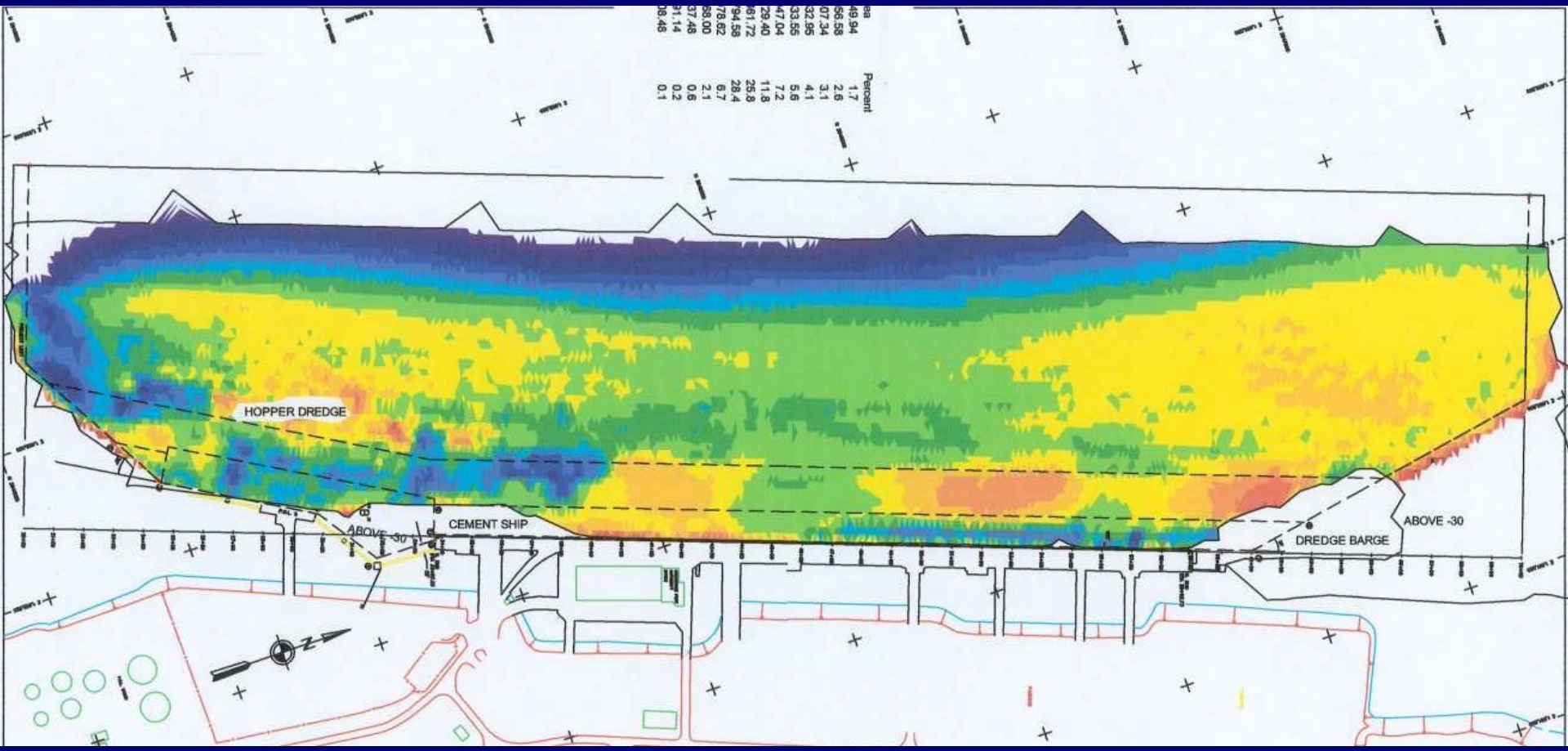

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27 August 2003
23 days of Hopper Dredging

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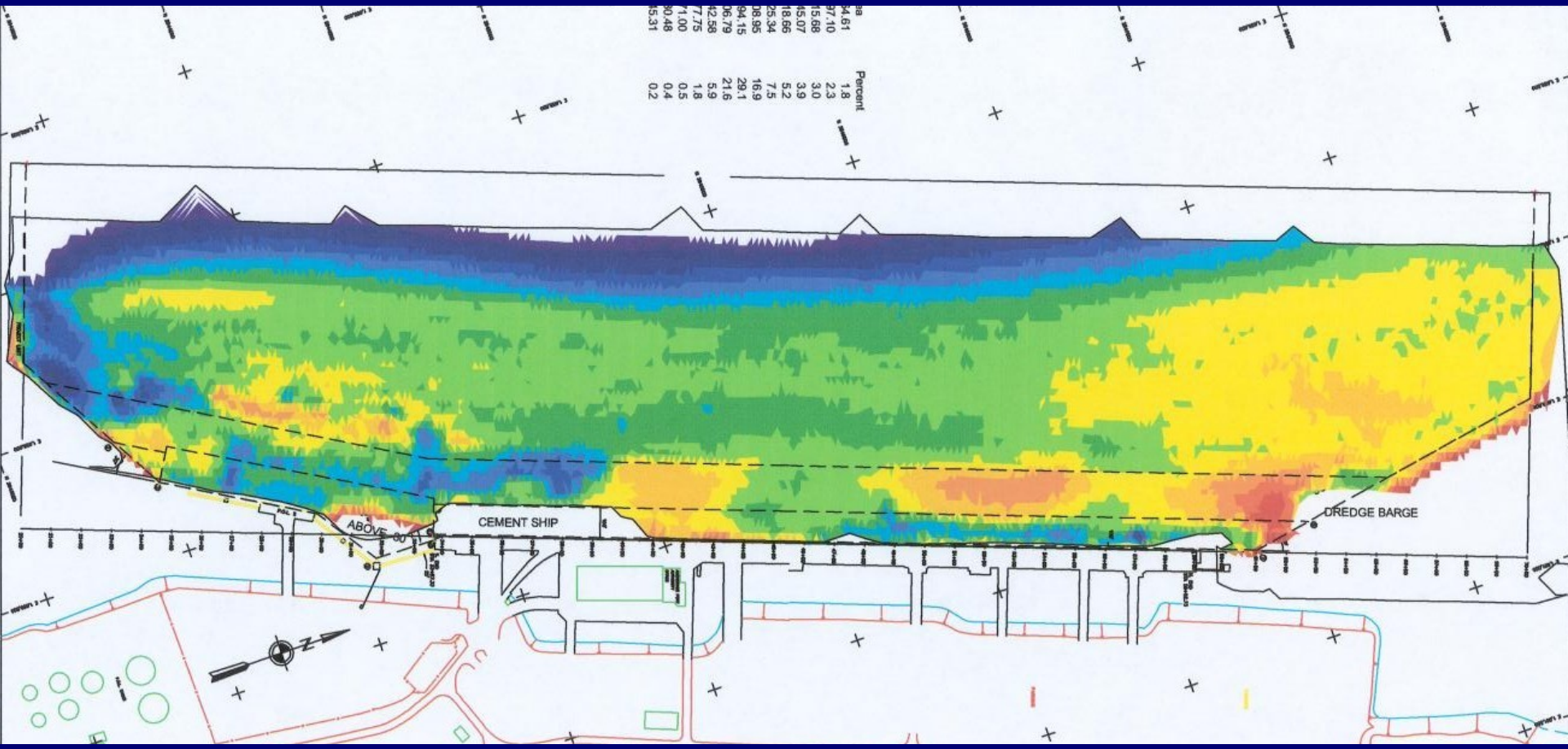

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WESTPORT Dredging

AK

US Army Corps
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Alaska District

WESTPORT Dumping

AK

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29 August 2003
25 days of Hopper Dredging

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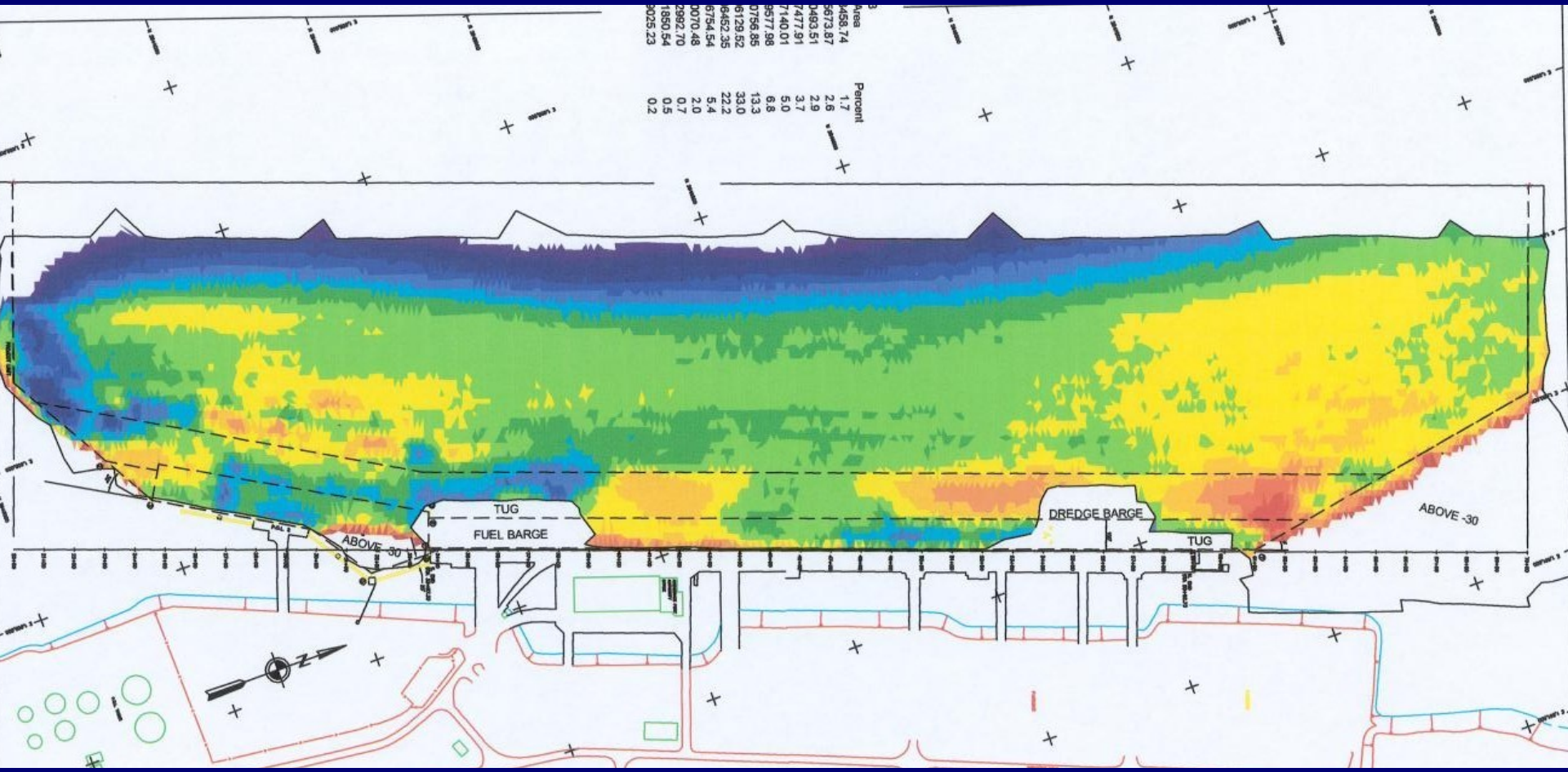

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1 September 2003
28 days of Hopper Dredging

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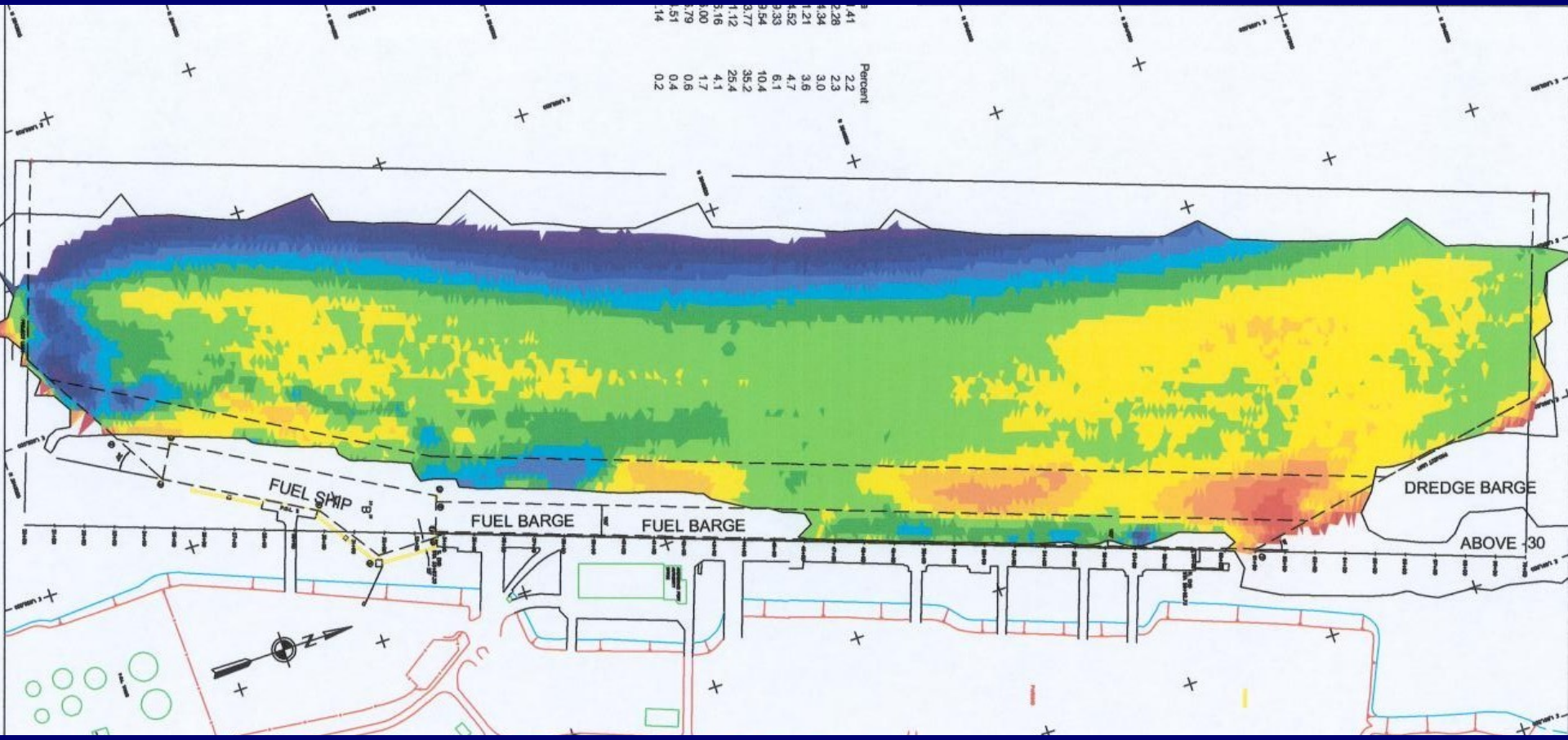

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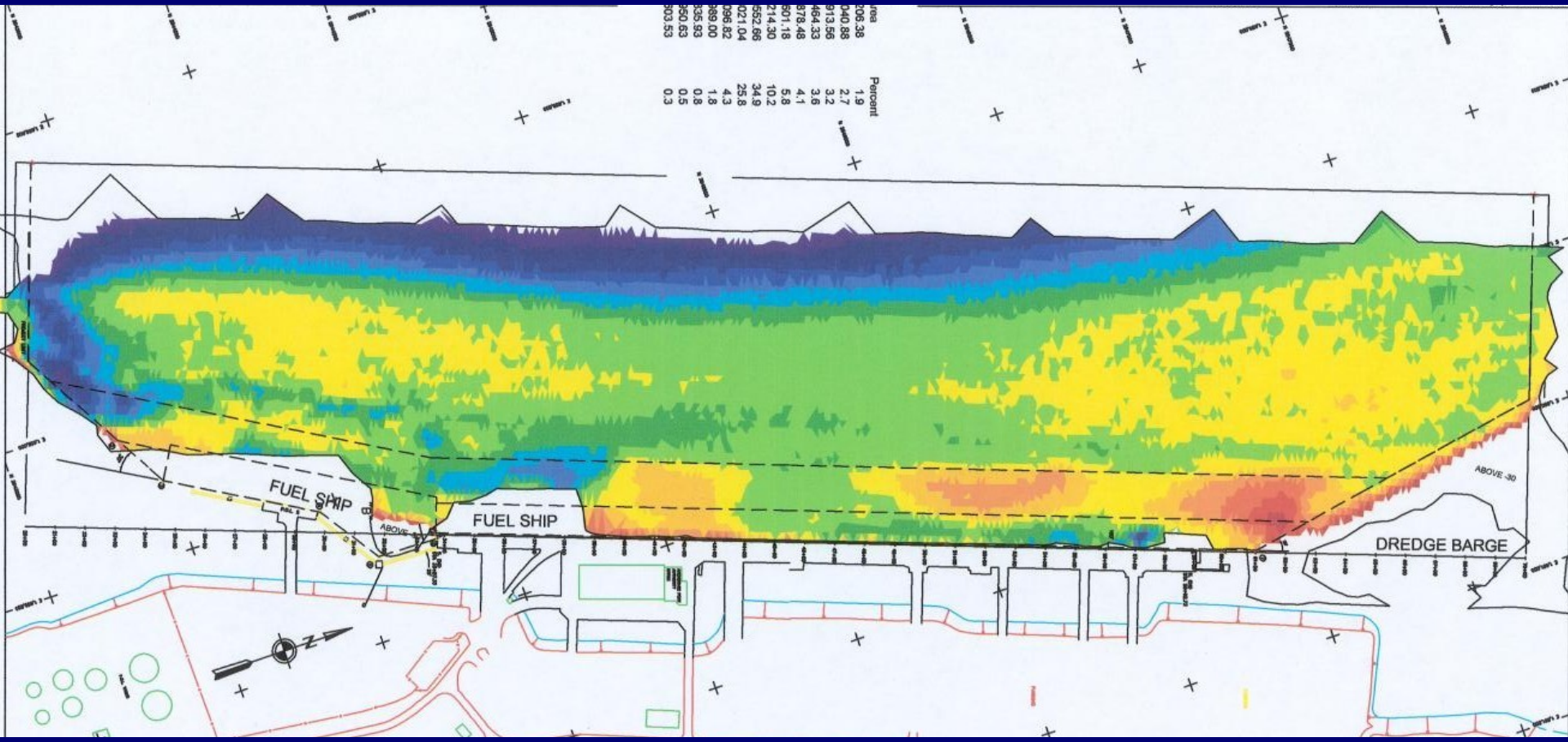
3 September 2003
30 days of Hopper Dredging

AK



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4 September
WESTPORT Departs Anchorage AK

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Alaska District

ICHDMG Success

AK

- A True Partnering Commitment
  - Industry and Corps working together to ensure a rapid response to the needs of the Nations Ports

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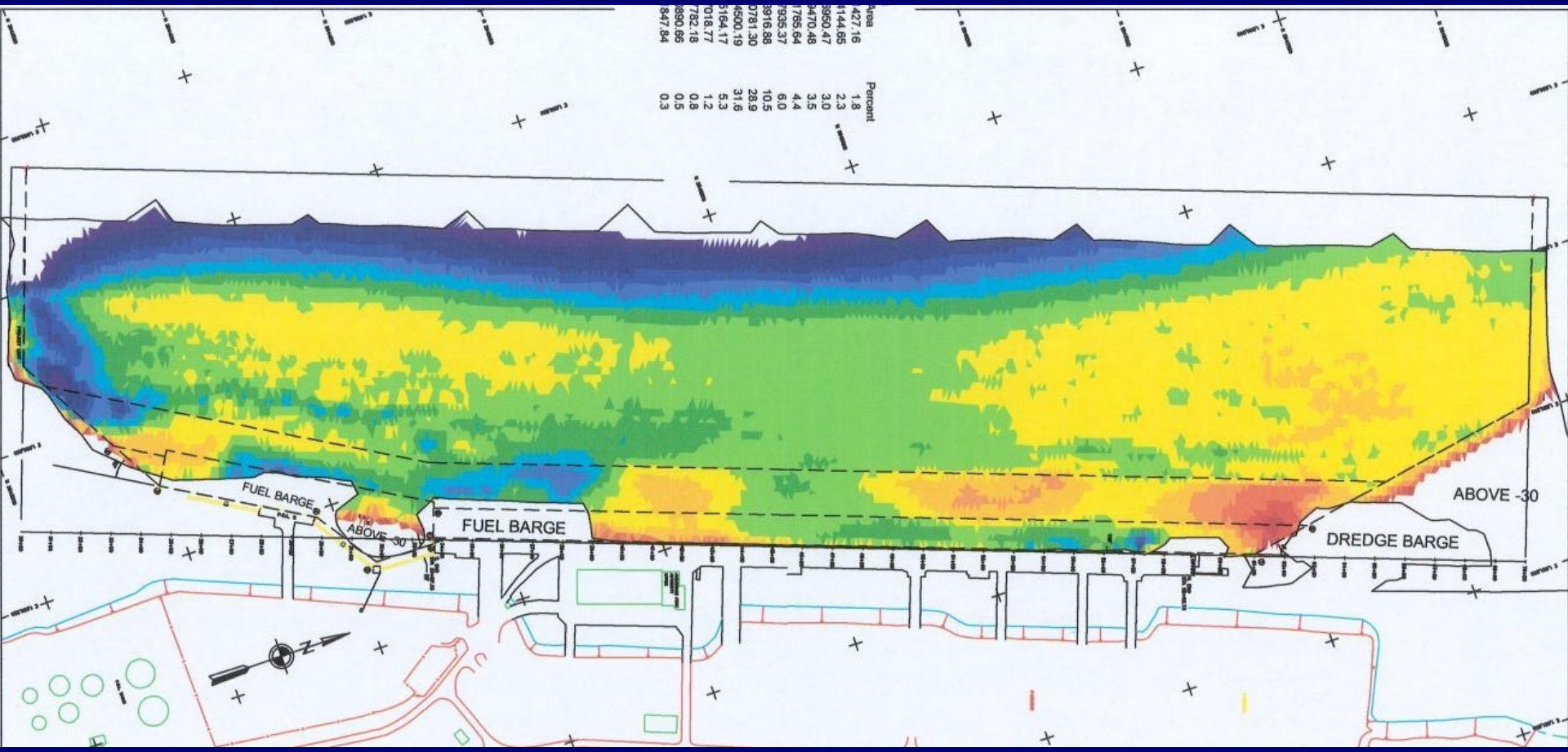
5 September 2003
2 days after Hopper Dredging

AK



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Lessons Learned

AK

- RTF Pre-flag procedure worked well
- Alert messages need to:
  - Describe the problem & known cause(s).
  - Specify the solution
  - State the urgency
  - Date when dredging must commence
  - Date & time for responding to message with formal notice of availability.

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Alaska District

Lessons Learned

AK

- Project Delivery Team needs to contain all the right people.
  - Contracting
  - Hydraulic Design
  - Cost Engineering
  - Real Estate
  - Environmental
  - Operations
  - Construction
  - Counsel

US Army Corps of Engineers
Alaska District

Lessons Learned

AK

- Need similar process for locating clamshell dredges for emergency dredging when needed.

X

- ICHDMG = ICDMG ??

- ICHDMG is extremely professional and resulted in a happy customer (Port of Anchorage).

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Alaska District

Suggested Reading

AK

CECW-OD *Rev. January 22, 2002*

RAISE THE FLAG PROCEDURE

Applicability

This procedure is applicable to all U.S. Army Corps of Engineers navigation projects which may be maintained by hopper dredges.

Purpose

Section 237 of the Water Resources Development Act of 1996, requires the Secretary of the Army to initiate a program to increase the use of private-industry hopper dredges for the construction and maintenance of Federal navigation channels. To carry out this requirement, the Secretary was directed to place the Federal hopper dredge WHEELER in a Ready Reserve status and develop and implement procedures to ensure that, to the maximum extent practicable, private industry hopper dredge capacity is available to meet both routine and time-sensitive dredging needs. The Raise the Flag procedure provides a systematic method to identify and respond to the nation's urgent or emergency dredging needs.

Reports

The U.S. Army Corps of Engineers (Corps) Headquarter's will provide, on a weekly basis, a Corps and industry hopper dredge location report. The weekly report will be electronically transmitted to each member of the Industry / Corps Hopper Dredge Management Group (ICHDMG). The report will also be available on the Corps Navigation Data Center's web site (*http://www.iwr.usace.army.mil/ndc/dredge.htm*). Corps Headquarter's will also maintain the Scheduled Contract Hopper Dredging bar charts for the current and next Fiscal Year.

Issue Resolution

1. Issues that hinder a rapid response to a possible raise the flag situation (e.g., consistency among districts, contracting, dredge equipment, etc.) will be resolved at the appropriate Corps or industry level. The resolution document will be provided each member and included as an appendix to these procedures.

2. Districts that do not have expedited contract procurement procedures in place, must develop them. Expedited contract procedures may include, but not limited to, provisions such as expanded scopes of work, delaying finalizing existing contracts, shelf-ready emergency contract specifications, or shelf-ready modification packages to existing contracts. Open competition is the preferred means for accomplishing urgent or emergency dredging requirements. Expedited contract procurement procedures are to be followed with either an urgent or emergency situation. If the chance of obtaining no bids or one bid due to contractor dredge commitments, the contract

QUESTIONS??
For more info:
http://www.usace.army.mil
or (907) 753-2753